?show files;ds
File 347:JAPIO Nov 1976-2004/Sep(Updated 050204)
        (c) 2005 JPO & JAPIO
File 348:EUROPEAN PATENTS 1978-2005/Jan W05
        (c) 2005 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20050203,UT=20050127
        (c) 2005 WIPO/Univentio
File 350:Derwent WPIX 1963-2005/UD,UM &UP=200509
        (c) 2005 Thomson Derwent
File 371:French Patents 1961-2002/BOPI 200209
        (c) 2002 INPI. All rts. reserv.
File 120:U.S. Copyrights 1978-2005/Feb 01
        (c) format only 2005 The Dialog Corp.
File 426:LCMARC-Books 1968-2005/Feb W1
        (c) format only 2005 Dialog Corporation
File 430:British Books in Print 2005/Jan W5
        (c) 2005 J. Whitaker & Sons Ltd.
File 483:Newspaper Abs Daily 1986-2005/Feb 05
        (c) 2005 ProQuest Info&Learning
File   2:INSPEC 1969-2005/Jan W5
        (c) 2005 Institution of Electrical Engineers
File 35:Dissertation Abs Online 1861-2005/Jan
        (c) 2005 ProQuest Info&Learning
File 65:Inside Conferences 1993-2005/Feb W1
        (c) 2005 BLDSC all rts. reserv.
File 99:Wilson Appl. Sci & Tech Abs 1983-2004/Nov
        (c) 2005 The HW Wilson Co.
File 474:New York Times Abs 1969-2005/Feb 07
        (c) 2005 The New York Times
File 475:Wall Street Journal Abs 1973-2005/Feb 07
        (c) 2005 The New York Times
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
        (c) 2002 The Gale Group
File 139:EconLit 1969-2005/Jan
        (c) 2005 American Economic Association
File   8:Ei Compendex(R) 1970-2005/Jan W3
        (c) 2005 Elsevier Eng. Info. Inc.
File   6:NTIS 1964-2005/Jan W5
        (c) 2005 NTIS, Intl Cpyrght All Rights Res
File 144:Pascal 1973-2005/Jan W5
        (c) 2005 INIST/CNRS
File   7:Social SciSearch(R) 1972-2005/Jan W5
        (c) 2005 Inst for Sci Info
File 121:Brit.Education Index 1976-2004/Q3
        (c) 2005 British Education Index
File 111:TGG Natl.Newspaper Index(SM) 1979-2005/Feb 03
        (c) 2005 The Gale Group
File 437:Education Abstracts 1983-2004/Nov
        (c) 2005 The HW Wilson Co
File 438:Library Lit. & Info. Science 1984-2004/Nov
        (c) 2005 The HW Wilson Co
File   9:Business & Industry(R) Jul/1994-2005/Feb 07
        (c) 2005 The Gale Group
File 15:ABI/Inform(R) 1971-2005/Feb 07
        (c) 2005 ProQuest Info&Learning
File 16:Gale Group PROMT(R) 1990-2005/Feb 08
        (c) 2005 The Gale Group
File 20:Dialog Global Reporter 1997-2005/Feb 08
        (c) 2005 The Dialog Corp.
File 148:Gale Group Trade & Industry DB 1976-2005/Feb 07
        (c)2005 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
        (c) 1999 The Gale Group
File 275:Gale Group Computer DB(TM) 1983-2005/Feb 08
        (c) 2005 The Gale Group

```
File 476:Financial Times Fulltext 1982-2005/Feb 08
        (c) 2005 Financial Times Ltd
File 610:Business Wire 1999-2005/Feb 08
        (c) 2005 Business Wire.
File 613:PR Newswire 1999-2005/Feb 08
        (c) 2005 PR Newswire Association Inc
File 621:Gale Group New Prod.Annou.(R) 1985-2005/Feb 08
        (c) 2005 The Gale Group
File 624:McGraw-Hill Publications 1985-2005/Feb 08
        (c) 2005 McGraw-Hill Co. Inc
File 634:San Jose Mercury  Jun 1985-2005/Feb 06
        (c) 2005 San Jose Mercury News
File 636:Gale Group Newsletter DB(TM) 1987-2005/Feb 08
        (c) 2005 The Gale Group
File 810:Business Wire 1986-1999/Feb 28
        (c) 1999 Business Wire
File 813:PR Newswire 1987-1999/Apr 30
        (c) 1999 PR Newswire Association Inc
File 267:Finance & Banking Newsletters 2005/Feb 07
        (c) 2005 The Dialog Corp.
File 268:Banking Info Source 1981-2005/Jan W4
        (c) 2005 ProQuest Info&Learning
File 625:American Banker Publications 1981-2005/Feb 08
        (c) 2005 American Banker
File 626:Bond Buyer Full Text 1981-2005/Feb 08
        (c) 2005 Bond Buyer
File  13:BAMP 2005/Jan W5
        (c) 2005  The Gale Group
File  75:TGG Management Contents(R) 86-2005/Jan W5
        (c) 2005 The Gale Group
File 990:NewsRoom Current Nov 1 -2005/Feb 08
        (c) 2005 The Dialog Corporation
File 635:Business Dateline(R) 1985-2005/Feb 05
        (c) 2005 ProQuest Info&Learning
File 647:CMP  Computer Fulltext 1988-2005/Jan W4
        (c) 2005 CMP Media, LLC
File 674:Computer News Fulltext 1989-2005/Jan W5
        (c) 2005 IDG Communications
File 660:Federal News Service 1991-2002/Jul 02
        (c) 2002 Federal News Service
File  98:General Sci Abs/Full-Text 1984-2004/Sep
        (c) 2004 The HW Wilson Co.
File 570:Gale Group MARS(R) 1984-2005/Feb 08
        (c) 2005 The Gale Group
File 369:New Scientist 1994-2005/Jan W4
        (c) 2005 Reed Business Information Ltd.
File 370:Science 1996-1999/Jul W3
        (c) 1999 AAAS
File  95:TEME-Technology & Management 1989-2005/Jan W1
        (c) 2005 FIZ TECHNIK
File 553:Wilson Bus. Abs. FullText 1982-2004/Sep
        (c) 2004 The HW Wilson Co
File 141:Readers Guide 1983-2004/Sep
        (c) 2004 The HW Wilson Co
File 484:Periodical Abs Plustext 1986-2005/Jan W5
        (c) 2005 ProQuest
```

```
Set     Items    Description
S1       13      AU='DOUGHTY S'
S2        1      AU='DOUGHTY S G'
S3        6      AU='DOUGHTY S.'
S4        2      AU='DOUGHTY STEPHEN'
S5        3      AU='DOUGHTY STEVEN':AU='DOUGHTY STEVEN G'
S6        3      AU='DOUGHTY, S'
S7       39      AU='DOUGHTY, S.'
S8        4      AU='DOUGHTY, STEPHEN'
S9       11      AU='DOUGHTY, STEVE'
S10       8      AU='DOUGHTY, STEVE, 1973-':AU='DOUGHTY, STEVEN, 1960-'
S11      90      S1:S10
S12       3      S11 FROM 347,348,349,350,371
S13       3      IDPAT (sorted in duplicate/non-duplicate order)
S14       1      IDPAT (primary/non-duplicate records only)
S15      87      S11 NOT S12
S16       4      DEFINITION? ? OR VALUE? ? OR DATA()(ELEMENT? ? OR ITEM? ?)
         OR DATAFIELD? ? OR TAG? ? OR LABEL? ? OR FIELD? ? OR CODE? ? -
         OR FIELDNAME? ?
S17       3      S15 AND S16
S18       2      RD (unique items)
S19       3      S14 OR S18
```

DIALOG(R)File 350:Derwent WPIX

013890203   **Image available**
WPI Acc No: 2001-374416/200139
XRPX Acc No: N01-273969
   **Financial service organization transaction processing method e.g. in
   banks, involves storing processing relationship of each selected
   parameter of object, in relational or object oriented database**
Patent Assignee: COMPUTER SCI CORP (COMP-N)
Inventor: BOBBITT C P; **DOUGHTY S G** ; SHAW R J
Number of Countries: 094 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200133398	A2	20010510	WO 2000US29978	A	20001030	200139	B
AU 200113556	A	20010514	AU 200113556	A	20001030	200149	
EP 1252580	A1	20021030	EP 2000975513	A	20001030	200279	
			WO 2000US29978	A	20001030		

Priority Applications (No Type Date): US 2000699058 A 20001027; US 99162411
  P 19991029; US 99162412 P 19991029; US 99162509 P 19991029; US 99162567 P
  19991029; US 99162602 P 19991029; US 99162603 P 19991029; US 99162708 P
  19991029; US 2000699015 A 20001027; US 2000699021 A 20001027; US
  2000699036 A 20001027; US 2000699037 A 20001027; US 2000699038 A 20001027
  ; US 2000699054 A 20001027; US 2000699056 A 20001027
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200133398	A2	E	280	G06F-017/00	

   Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
   CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP
   KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT
   RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
   Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
   IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

| AU 200113556 | A | | | G06F-017/00 | Based on patent WO 200133398 |
| EP 1252580 | A1 | E | | G06F-017/00 | Based on patent WO 200133398 |

   Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
   LI LT LU LV MC MK NL PT RO SE SI

...Inventor: **DOUGHTY S G**

DIALOG(R)File   2:INSPEC

02892412   INSPEC Abstract Number: C87035618
  Title: **Fourier series for unevenly spaced data**
  Author(s): **Doughty, S.**
  Author Affiliation: Wisconsin Univ., Platteville, WI, USA
  Journal: Machine Design   vol.59, no.3   p.220, 222
  Publication Date: 12 Feb. 1987 Country of Publication: USA
  CODEN: MADEAP ISSN: 0024-9114
  U.S. Copyright Clearance Center Code: 0024-9114/87/$1.00+.50
  Language: English
  Subfile: C

  Author(s): **Doughty, S.**
  ...Abstract: each data group; and a recursion relation for the required
integer order sine and cosine **values** .

19/AA,AN,AZ,TI/1   (Item 1 from file: 350)

013890203
WPI Acc No: 2001-374416/
   Financial service organization transaction processing method e.g. in
   banks, involves storing processing relationship of each selected
   parameter of object, in relational or object oriented database
Local Applications (No Type Date): WO 2000US29978 A 20001030; AU 200113556
   A 20001030; EP 2000975513 A 20001030; WO 2000US29978 A 20001030
Priority Applications (No Type Date): US 2000699058 A 20001027; US 99162411
   P 19991029; US 99162412 P 19991029; US 99162509 P 19991029; US 99162567 P
   19991029; US 99162602 P 19991029; US 99162603 P 19991029; US 99162708 P
   19991029; US 2000699015 A 20001027; US 2000699021 A 20001027; US
   2000699036 A 20001027; US 2000699037 A 20001027; US 2000699038 A 20001027
   ; US 2000699054 A 20001027; US 2000699056 A 20001027

19/AA,AN,AZ,TI/2   (Item 1 from file: 2)

02892412   INSPEC Abstract Number: C87035618
 Title: **Fourier series for unevenly spaced data**

19/AA,AN,AZ,TI/3   (Item 1 from file: 16)

09997909   Supplier Number: 90433575
The end is nigh for Christianity warns bishop.

```
?show files;ds
File 347:JAPIO Nov 1976-2004/Sep(Updated 050204)
        (c) 2005 JPO & JAPIO
File 350:Derwent WPIX 1963-2005/UD,UM &UP=200509
        (c) 2005  Thomson Derwent
File 371:French Patents 1961-2002/BOPI 200209
        (c) 2002 INPI.  All rts. reserv.


Set     Items    Description
S1     5507434   KEY OR CONTROL OR CONTROLLING OR MASTER OR PRIMARY OR PRIME
                 OR AUTHORITY OR BACKBONE OR CORE OR ESSENTIAL OR FOUNDATION -
                 OR PRINCIPAL OR PRINCIPLE OR ROOT OR SOURCE OR BASAL OR ELEME-
                 NTAL OR FUNDAMENTAL
S2     2349353   DEFINITION? ? OR VALUE? ? OR DATA()(ELEMENT? ? OR ITEM? ?)
                 OR DATAFIELD? ? OR TAG? ? OR LABEL? ? OR FIELD? ? OR CODE? ? -
                 OR FIELDNAME? ?
S3     2622583   SEARCH??? OR LOCATION OR SELECT??? OR RETRIEV??? OR CRAWL?-
                 ?? OR SPIDER??? OR QUERY??? OR QUERIES OR ACCESS OR BROWSING -
                 OR FIND???
S4     2268510   MASK OR TEMPLATE? ? OR RULE()(SET? ? OR BASE) OR RULESET? ?
                 OR SET? ?(2W)RULES OR RULEBASE? ? OR RULE? ? OR PROCEDURE? ?
                 OR MATRIX?? OR MATRICES OR STRUCTURE? ? OR FRAMEWORK? ?
S5      224643   (TRANSACTION OR MULTIPLICATIVE)()(DATA OR INFORMATION) OR -
                 DATABASE? ? OR DATABANK? ? OR DATASET? ? OR DATAFILE? ? OR (D-
                 ATA OR INFORMATION OR KNOWLEDGE)()(BASE? ? OR BANK? ? OR SET?
                 ? OR FILE? ?) OR DB OR KNOWLEDGEBASE
S6      200430   S1(5N)S2
S7       41003   S3(5N)S4
S8          55   S5(S)S6(S)S7
S9      352268   IC=(G06F-017? OR G06F-007?)
S10         33   S8 AND S9
S11         26   S5(10N)S6(10N)S7
S12         19   S9 AND S11
```

07901043   **Image available**
SEARCHING PROGRAM CREATING METHOD

PUB. NO.:   2004-013802 [JP 2004013802 A]
PUBLISHED: January 15, 2004 (20040115)
INVENTOR(s):   TAMORI TAKASHI
               ARAI KENJI
               KIJIMA NORIKAZU
APPLICANT(s): HITACHI SOFTWARE ENG CO LTD
APPL. NO.:   2002-170112 [JP 2002170112]
FILED: June 11, 2002 (20020611)

INTL CLASS: G06F-009/44; **G06F-017/30**

ABSTRACT
...item correlation table storing the item correlation information composed
of the data items in the **database** as a data acquirement **source** on each
data item used in the **searching procedure**, a data storing part as a
data storing address, and a data item name used...

07097642   **Image available**
CONTROL DATA STRUCTURE AND RETRIEVAL METHOD USING THE SAME

PUB. NO.:   2001-325298 [JP 2001325298 A]
PUBLISHED: November 22, 2001 (20011122)
INVENTOR(s):   KAI HIROSHI
               TEZUKA HIDEKI
APPLICANT(s): JEOL LTD
APPL. NO.:   2000-141335 [JP 2000141335]
FILED: May 15, 2000 (20000515)

INTL CLASS: **G06F-017/30** ; G06F-012/00; H01J-037/24

ABSTRACT
... data structure in which data are easily generated, maintained and
retrieved and to provide a **retrieval** method using the **structure** .

SOLUTION: Control data has the structure provided with a **data file** 23
where a plurality of actual **control** data **values** are arrayed, with a
data card pat 22 where a plurality of cards are arranged...

05003409   **Image available**
DATA BASE INTEGRATION/RETRIEVAL DEVICE

PUB. NO.:   07-296009 [JP 7296009 A]
PUBLISHED: November 10, 1995 (19951110)
INVENTOR(s):   SHIBA SATOSHI
               NAGAHISA HIROTO
APPLICANT(s): MITSUBISHI ELECTRIC CORP [000601] (A Japanese Company or
               Corporation), JP (Japan)
APPL. NO.:   06-242675 [JP 94242675]

FILED: October 06, 1994 (19941006)

INTL CLASS: **G06F-017/30** ; G06F-012/00

ABSTRACT
... a data base retrieval connection means 25 which includes a step for
deciding the retrieval **key** item based on a concrete **value** inputted to
the initial retrieval card that is taken out from a **retrieval procedure**
preservation means 7 preserving the **procedure** and a step for **searching**
the designated **data base** from the retrieval **key** item and obtaining
the concrete **value** of the output item of the designated retrieval card,
which repeats them and outputs the...

12/3,K/9   **(Item 4 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

014703996   **Image available**
WPI Acc No: 2002-524700/200256
XRPX Acc No: N02-415557
  **Database system prepares mask table that stores access right with respect
  to each item in table stored in database**
Patent Assignee: TOPPAN PRINTING CO LTD (TOPP)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 2002175217	A	20020621	JP 2000372314	A	20001207	200256	B

Priority Applications (No Type Date): JP 2000372314 A 20001207
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2002175217	A		5	G06F-012/14	

Abstract (Basic):
...   A process unit prepares a **mask** table that stores **access**
   right with respect to each item in a table stored in a **database** . When
   a user inputs user **code** , a **control** unit determines whether to
   permit the user to **access** the **database** , by referring the **mask**
   table.
...International Patent Class (Additional): **G06F-017/30**

12/3,K/10   **(Item 5 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

014584700
WPI Acc No: 2002-405404/200243
Related WPI Acc No: 2002-405397; 2002-405398
XRPX Acc No: N02-318265
  **Method of creating links between databases by selecting source data in a
  source database and searching for data matching the source data in a
  target database and on finding a match inserting a link from the source
  to the target**
Patent Assignee: LION BIOSCIENCE AG (LION-N)
Inventor: CROFT D; RICHTER S
Number of Countries: 096 Number of Patents: 005
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200233587	A2	20020425	WO 2001EP11991	A	20011016	200243	B
AU 200193871	A	20020429	AU 200193871	A	20011016	200255	
US 20030195888	A1	20031016	US 2000688174	A	20001016	200369	
			US 2003425015	A	20030429		
EP 1364312	A2	20031126	EP 2001974337	A	20011016	200380	

```
                         WO 2001EP11991  A   20011016
JP 2004514967  W   20040520  WO 2001EP11991  A   20011016  200434
                         JP 2002536905  A   20011016
```

Priority Applications (No Type Date): US 2000688174 A 20001016; US
  2003425015 A 20030429
Patent Details:
Patent No Kind Lan Pg Main IPC   Filing Notes
WO 200233587 A2 E 29 G06F-017/30
    Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
    CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS
    JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL
    PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
    Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
    IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW
AU 200193871 A   G06F-017/30   Based on patent WO 200233587
US 20030195888 A1   G06F-017/30   Cont of application US 2000688174
EP 1364312   A2 E   G06F-017/30   Based on patent WO 200233587
    Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
    LI LT LU LV MC MK NL PT RO SE SI TR
JP 2004514967 W   50 G06F-017/30   Based on patent WO 200233587

Abstract (Basic):
...   A **source** data **field** may be **selected** and a text extraction
    rule is used to produce a list of terms which are used to search the
    target **database** . A link inserted in the source database may indicate
    the target database and the entry...
International Patent Class (Main): **G06F-017/30**

  12/3,K/13   (Item 8 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

013450966   **Image available**
WPI Acc No: 2000-622909/200060
XRPX Acc No: N00-461715
    Search   procedure **for object e.g. character row, involves searching
    object with attribute value extracted corresponding to extracted
    attribute** value **of** key **object, from** database **connected to network**
Patent Assignee: SHARP KK (SHAF)
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind Date   Applicat No   Kind   Date   Week
JP 2000250917 A   20000914 JP 9949394   A   19990226 200060 B

Priority Applications (No Type Date): JP 9949394 A 19990226
Patent Details:
Patent No Kind Lan Pg Main IPC   Filing Notes
JP 2000250917 A   21 G06F-017/30

    Search   procedure **for object e.g. character row, involves searching
    object with attribute value extracted corresponding to extracted
    attribute** value **of** key **object, from** database **connected to network**
International Patent Class (Main): **G06F-017/30**

  12/3,K/14   (Item 9 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

013014974   **Image available**
WPI Acc No: 2000-186825/200017
XRPX Acc No: N00-138335
    Record access **key generation** procedure **in distributed** database

              Caryn Wesner-Early EIC 3600 February 8, 2005 3

system, involves forming record key having location number as first field and record number as second field
Patent Assignee: NEC SOFTWARE CHUGOKU LTD (NIDE)
Number of Countries: 001   Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 2000029886	A	20000128	JP 98194181	A	19980709	200017	B
JP 3251239	B2	20020128	JP 98194181	A	19980709	200214	

Priority Applications (No Type Date): JP 98194181 A 19980709
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2000029886	A		8	G06F-017/30	
JP 3251239	B2		8	G06F-017/30	Previous Publ. patent JP 2000029886

  Record access key generation procedure in distributed database system, involves forming record key having location number as first field and record number as second field
International Patent Class (Main): G06F-017/30

$\times \times$

  12/3,K/15   (Item 10 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

012360854   **Image available**
WPI Acc No: 1999-166961/199914
Related WPI Acc No: 1999-153243; 1999-214402; 2001-234122
XRPX Acc No: N99-121673
  Query apparatus for database system
Patent Assignee: NOVELL INC (NOVE-N)
Inventor: BRADSHAW W B; DAVIS J R; HODGKINSON A A; JENSEN B L; PATHAKIS S W
 ; SANDERS D S
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 5873079	A	19990216	US 9626892	A	19960920	199914	B
			US 96749860	A	19961115		

Priority Applications (No Type Date): US 9626892 P 19960920; US 96749860 A 19961115
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5873079	A		30	G06F-017/30	Provisional application US 9626892

Abstract (Basic):
...   A compound alternate **key** filtered index **definition** (102) containing a criterion for **selecting** arbitrarily **structured** records (84) of **database** is used to create a filter index which comprises keys (92) corresponding to selected records...
International Patent Class (Main): G06F-017/30

12/AA,AN,AZ,TI/1   (Item 1 from file: 347)

07901043
SEARCHING PROGRAM CREATING METHOD

APPL. NO.:   2002-170112   [JP 2002170112]

12/AA,AN,AZ,TI/2   (Item 2 from file: 347)

07205191
SYSTEM FOR PROVIDING RESERVATION RELATING INFORMATION

APPL. NO.:   2000-253429   [JP 2000253429]

12/AA,AN,AZ,TI/3   (Item 3 from file: 347)

07097642
CONTROL DATA STRUCTURE AND RETRIEVAL METHOD USING THE SAME

APPL. NO.:   2000-141335   [JP 2000141335]

12/AA,AN,AZ,TI/4   (Item 4 from file: 347)

05888684
DEVICE FOR PREPARING DOCUMENT

APPL. NO.:   08-326302   [JP 96326302]

12/AA,AN,AZ,TI/5   (Item 5 from file: 347)

05003409
DATA BASE INTEGRATION/RETRIEVAL DEVICE

APPL. NO.:   06-242675   [JP 94242675]

12/AA,AN,AZ,TI/6   (Item 1 from file: 350)

016273121
WPI Acc No: 2004-431015/
   Database **queries processing method for parallel processing system,
   involves receiving query in query** source   code **and compiling
   executable query to process** query **by configured global-results
   processing** matrix
Local Applications (No Type Date): US 2002293483 A 20021114
Priority Applications (No Type Date): US 2002293483 A 20021114

12/AA,AN,AZ,TI/7   (Item 2 from file: 350)

015598770
WPI Acc No: 2003-660925/
   **Users profile information location enabling method for databases,
   involves storing compact definition of schema of external database and**

data source information, and accessing profile information using stored
information
Local Applications (No Type Date): US 200134440 A 20011226; AU 2002358301 A
  20021226; EP 2002792540 A 20021226; WO 2002US41611 A 20021226
Priority Applications (No Type Date): US 200134440 A 20011226; US 200134442
  A 20011226; US 200137805 A 20011226

12/AA,AN,AZ,TI/8   (Item 3 from file: 350)
DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

014719956
WPI Acc No: 2002-540660/
  **Database organizing method involves navigating hierarchical structure of
  nodes during search until conclusion set is reached and organizing
  structure, such that key information relating to node is inferred from
  node position**
Local Applications (No Type Date): GB 200029238 A 20001130; WO 2001GB5242 A
  20011128; AU 200222096 A 20011128; WO 2001GB5242 A 20011128; NO 20032416
  A 20030527; EP 2001998908 A 20011128; WO 2001GB5242 A 20011128; WO
  2001GB5242 A 20011128; US 2003432769 A 20030528; KR 2003707328 A 20030530
  ; WO 2001GB5242 A 20011128; JP 2002547038 A 20011128
Priority Applications (No Type Date): GB 200029238 A 20001130

12/AA,AN,AZ,TI/9   (Item 4 from file: 350)
DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

014703996
WPI Acc No: 2002-524700/
  **Database system prepares mask table that stores access right with respect
  to each item in table stored in database**
Local Applications (No Type Date): JP 2000372314 A 20001207
Priority Applications (No Type Date): JP 2000372314 A 20001207

12/AA,AN,AZ,TI/10   (Item 5 from file: 350)
DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

014584700
WPI Acc No: 2002-405404/
  **Method of creating links between databases by selecting source data in a
  source database and searching for data matching the source data in a
  target database and on finding a match inserting a link from the source
  to the target**
Local Applications (No Type Date): WO 2001EP11991 A 20011016; AU 200193871
  A 20011016; US 2000688174 A 20001016; US 2003425015 A 20030429; EP
  2001974337 A 20011016; WO 2001EP11991 A 20011016; WO 2001EP11991 A
  20011016; JP 2002536905 A 20011016
Priority Applications (No Type Date): US 2000688174 A 20001016; US
  2003425015 A 20030429

12/AA,AN,AZ,TI/11   (Item 6 from file: 350)
DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

014116866
WPI Acc No: 2001-601078/
  **Database index accessing method for database management system, involves
  exploiting index using model having generalized pattern matching with
  user defined predicate to retrieve data from database**
Local Applications (No Type Date): US 9752180 A 19970710; US 98112307 A
  19980709
Priority Applications (No Type Date): US 9752180 P 19970710; US 98112307 A
  19980709

12/AA,AN,AZ,TI/12   (Item 7 from file: 350)
DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

013514517
WPI Acc No: 2000-686463/
  **Database item versioning system for hand-held devices, has source code
  control system to store versions of item and mechanism to check in and
  check out the item**
Local Applications (No Type Date): WO 2000US1472 A 20000121; AU 200034721 A
  20000112; US 99235038 A 19990121; US 2004868111 A 20040615
Priority Applications (No Type Date): US 99235038 A 19990121; US 2004868111
  A 20040615

12/AA,AN,AZ,TI/13   (Item 8 from file: 350)
DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

013450966
WPI Acc No: 2000-622909/
   Search   procedure **for object e.g. character row, involves searching
  object with attribute value extracted corresponding to extracted
  attribute** value of key **object, from** database **connected to network**
Local Applications (No Type Date): JP 9949394 A 19990226
Priority Applications (No Type Date): JP 9949394 A 19990226

12/AA,AN,AZ,TI/14   (Item 9 from file: 350)
DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

013014974
WPI Acc No: 2000-186825/
  Record access **key generation** procedure **in distributed** database
  system, involves forming record key **having location number as first**
  field **and record number as second field**
Local Applications (No Type Date): JP 98194181 A 19980709; JP 98194181 A
  19980709
Priority Applications (No Type Date): JP 98194181 A 19980709

12/AA,AN,AZ,TI/15   (Item 10 from file: 350)
DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

012360854
WPI Acc No: 1999-166961/
  Query apparatus for database system
Local Applications (No Type Date): US 9626892 A 19960920; US 96749860 A
  19961115
Priority Applications (No Type Date): US 9626892 P 19960920; US 96749860 A
  19961115

12/AA,AN,AZ,TI/16   (Item 11 from file: 350)
DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

012347136
WPI Acc No: 1999-153243/
  **Hybrid query formulating and executing apparatus for heterogeneous
  database**
Local Applications (No Type Date): US 9626892 A 19960920; US 96751540 A
  19961115
Priority Applications (No Type Date): US 9626892 P 19960920; US 96751540 A
  19961115

12/AA,AN,AZ,TI/17   (Item 12 from file: 350)

010915515
WPI Acc No: 1996-412466/
  Database processing system - has composite structure   definition
  control **part which controls** access to database **composite** structure
  and has maintenance/ selection **control part which access controls shared**
  and local processes
Local Applications (No Type Date): US 91745233 A 19910814; US 94360033 A
  19941220
Priority Applications (No Type Date): JP 90231452 A 19900831; JP 90231446 A
  19900831

12/AA,AN,AZ,TI/18   (Item 13 from file: 350)

010849469
WPI Acc No: 1996-346422/
  Data access control system for electronic conferencing - has setter that
  facilitates right to access e.g. read-out right of conference participant
  data and write-in right for every item
Local Applications (No Type Date): JP 95203462 A 19950809
Priority Applications (No Type Date): JP 94241729 A 19941006

12/AA,AN,AZ,TI/19   (Item 14 from file: 350)

010536378
WPI Acc No: 1996-033332/
  Relational database table display system - searches each line in table
  with relational database reference part and displays value of each
  sequence on display device in form of created output form
Local Applications (No Type Date): JP 9482583 A 19940329
Priority Applications (No Type Date): JP 9482583 A 19940329

```
?show files;ds
File 348:EUROPEAN PATENTS 1978-2005/Jan W05
        (c) 2005 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20050203,UT=20050127
        (c) 2005 WIPO/Univentio

Set    Items    Description
S1    1355342   KEY OR CONTROL OR CONTROLLING OR MASTER OR PRIMARY OR PRIME
                OR AUTHORITY OR BACKBONE OR CORE OR ESSENTIAL OR FOUNDATION -
                OR PRINCIPAL OR PRINCIPLE OR ROOT OR SOURCE OR BASAL OR ELEME-
                NTAL OR FUNDAMENTAL
S2    1224723   DEFINITION? ? OR VALUE? ? OR DATA()(ELEMENT? ? OR ITEM? ?)
                OR DATAFIELD? ? OR TAG? ? OR LABEL? ? OR FIELD? ? OR CODE? ? -
                OR FIELDNAME? ?
S3    1938453   SEARCH??? OR LOCATION OR SELECT??? OR RETRIEV??? OR CRAWL?-
                ?? OR SPIDER??? OR QUERY??? OR QUERIES OR ACCESS OR BROWSING -
                OR FIND???
S4    1204602   MASK? ? OR FILTER? ? OR TEMPLATE? ? OR RULE()(SET? ? OR BA-
                SE) OR RULESET? ? OR SET? ?(2W)RULES OR RULEBASE? ? OR RULE? ?
                OR PROCEDURE? ? OR MATRIX?? OR MATRICES OR STRUCTURE? ? OR F-
                RAMEWORK? ?
S5     223454   (TRANSACTION OR MULTIPLICATIVE)()(DATA OR INFORMATION) OR -
                DATABASE? ? OR DATABANK? ? OR DATASET? ? OR DATAFILE? ? OR (D-
                ATA OR INFORMATION OR KNOWLEDGE)()(BASE? ? OR BANK? ? OR SET?
                ? OR FILE? ?) OR DB OR KNOWLEDGEBASE
S6     182709   S1(5N)S2
S7     133126   S3(5N)S4
S8        942   S5(S)S6(S)S7
S9     135743   S1(3N)S2
S10    100710   S3(3N)S4
S11       80    S5(10N)S9(10N)S10
S12     52840   IC=(G06F-017? OR G06F-007?)
S13       44    S11 AND S12
S14       55    S5(7N)S9(7N)S10
S15       29    S12 AND S14
S16       29    IDPAT (sorted in duplicate/non-duplicate order)
S17       29    IDPAT (primary/non-duplicate records only)
```

17/3,K/1   (Item 1 from file: 348)

01504244
DATA ACCESS MANAGEMENT SYSTEM AND MANAGEMENT METHOD USING ACCESS CONTROL
TICKET
DATENZUGRIFFSMANAGEMENTSYSTEM UND MANAGEMENTVERFAHREN MIT EINEM
ZUGRIFFSSTEUERTICKET
SYSTEME DE GESTION D'ACCES AUX DONNEES ET PROCEDE DE GESTION UTILISANT UN
BILLET DE COMMANDE D'ACCES
PATENT ASSIGNEE:
  Sony Corporation, (214028), 7-35, Kitashinagawa 6-chome, Shinagawa-ku,
    Tokyo 141-0001, (JP), (Applicant designated States: all)
INVENTOR:
  YOSHINO, Kenji, c/o Sony Corporation, 7-35, Kitashinagawa 6-Chome,
    Shinagawa-Ku, Tokyo 141-0001, (JP)
  Ishibashi, Yoshihito, c/o Sony Corporation, 7-35, K itashinagawa 6-Chome,
    Shinagawa-Ku, Tokyo 141-0001, (JP)
  SHIRAI, Taizo, c/o SONY CORPORATION, 7-35, Kitashinagawa 6-Chome,
    Shinagawa-Ku, Tokyo 141-0001, (JP)
  TAKADA, Masayuki, c/o Sony Corporation, 7-35, Kitashinagawa 6-Chome,
    Shinagawa-Ku, Tokyo 141-0001, (JP)
LEGAL REPRESENTATIVE:
  Robinson, Nigel Alexander Julian et al (69551), D. Young & Co., 21 New
    Fetter Lane, London EC4A 1DA, (GB)
PATENT (CC, No, Kind, Date):   EP 1303075 A1 030416 (Basic)
                               WO 2002076013 020926
APPLICATION (CC, No, Date):   EP 2002702791 020307; WO 2002JP2113 020307
PRIORITY (CC, No, Date): JP 200173353 010315
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
  LU; MC; NL; PT; SE; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: H04L-009/00; G09C-001/00; G06F-012/14;
  G06F-015/00; **G06F-017/60** ; G06F-019/00; **G06F-017/00** ; G06K-019/00
ABSTRACT WORD COUNT: 137
NOTE:
  Figure number on first page: 0001

LANGUAGE (Publication,Procedural,Application): English; English; Japanese
FULLTEXT AVAILABILITY:
Available Text Language   Update   Word Count
     CLAIMS A (English)   200316   8394
     SPEC A   (English)   200316   79434
Total word count - document A   87828
Total word count - document B   0
Total word count - documents A + B   87828
...INTERNATIONAL PATENT CLASS: **G06F-017/60** ...

... **G06F-017/00**

...SPECIFICATION the access unit, and allows data access on the condition
  that authentication based on authentication **rules** indicated in the
  access control ticket is successfully conducted, and that ID **data** of
  the access unit indicated in the access control ticket is successfully
  verified.
    According to...

17/3,K/4   (Item 4 from file: 349)

01153716   **Image available**
SEMANTIC KNOWLEDGE RETRIEVAL MANAGEMENT AND PRESENTATION

SYSTEME ET PROCEDE POUR UNE EXTRACTION, UNE GESTION, UNE CAPTURE, UN
    PARTAGE, UNE DECOUVERTE, UNE DISTRIBUTION ET UNE PRESENTATION DE
    CONNAISSANCES SEMANTIQUES
Patent Applicant/Assignee:
  NERVANA INC, 10838 Main Street, Bellevue WA, 98004, US, US (Residence),
    US (Nationality)
Inventor(s):
  OMOIGUI Nosa, 549 239th Avenue S.E., Redmond, WA 98074, US,
Legal Representative:
  BLACK Richard T (agent), Black Lowe & Graham PLLC, 816 Second Avenue,
    Seattle, WA 98104, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200475466 A2-A3 20040902 (WO 0475466)
  Application: WO 2004US4674 20040217 (PCT/WO US04004674)
  Priority Application: US 2003447736 20030214
Designated States:
(All protection types applied unless otherwise stated - for applications
2004+)
  AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM
  DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
  LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO
  RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
  (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE
  SI SK TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) BW GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 160617

Main International Patent Class: **G06F-017/30**
Fulltext Availability:
  Detailed Description

Detailed Description
... as additional arguments to the Web service and the Web service will
  apply additional sub- **queries** appropriately to further **filter** the
  query that is specified in the agent/request SQML' (in other words, the
  SQML is passed as always, but in addition, the **filter** overrides and
  additional **filters** are also passed).
  A good case for filter-overrides will be for Best Bets. The...

 17/3,K/6   (Item 6 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2005 WIPO/Univentio. All rts. reserv.

01055617   **Image available**
COMPARISON OF SOURCE FILES
COMPARAISON DE FICHIERS SOURCE
Patent Applicant/Assignee:
  SOFTWARE ENGINEERING GMBH, Robert-Stolz-Str. 5, 40470 Dusseldorf, DE, DE
    (Residence), DE (Nationality)
Inventor(s):
  NEUMANN Ralf, Albrecht-Durer-Str. 1 d, 46539 Dinslaken, DE,
Legal Representative:
  COHAUSZ & FLORACK (24) (agent), Bleichstrasse 14, 40211 Dusseldorf, DE,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200385552 A2-A3 20031016 (WO 0385552)
  Application: WO 2003EP3698 20030409 (PCT/WO EP03003698)
  Priority Application: DE 10215852 20020410; EP 200224709 20021106
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SK
SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE
SI SK TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG ·
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 4994

Main International Patent Class: **G06F-017/30**
Fulltext Availability:
  Detailed Description

Detailed Description
... database 2 that has a multiplicity of data. This data can be extracted
  from the **database** with the help of **Structured** **Query** Language (SQL)
  queries . Original program **source** **code** 4A and revised program **source**
    code 4B work with **database** 2 with the help of the SQL queries. The
  processing times in programs 4 might...

of instant application

17/3,K/15   **(Item 15 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
(c) 2005 WIPO/Univentio. All rts. reserv.

00799831   **Image available**
BUSINESS TRANSACTION PROCESSING SYSTEMS AND METHODS
SYSTEMES ET PROCEDES DE TRAITEMENT DE TRANSACTIONS COMMERCIALES
Patent Applicant/Assignee:
  COMPUTER SCIENCES CORPORATION, 9500 Arboretum Blvd., Austin, TX 78759, US
    , US (Residence), US (Nationality)
Inventor(s):
  BOBBITT Charles P, 6606 Mapleshade Lane, Dallas, TX 78252, US,
  DOUGHTY Steven G, 2332 Brennan Drive, Plano, TX 75075-6618, US,
  SHAW Robert Jay, 4312 Seabury, Dallas, TX 78287, US,
Legal Representative:
  MEYERTONS Eric B (agent), Conley, Rose & Tayon, P.C., P.O. Box 398,
    Austin, TX 78767-0398, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200133398 A2 20010510 (WO 0133398)
  Application: WO 2000US29978 20001030 (PCT/WO US0029978)
  Priority Application: US 99162412 19991029; US 99162411 19991029; US
    99162602 19991029; US 99162509 19991029; US 99162708 19991029; US
    99162567 19991029; US 99162603 19991029; US 2000699036 20001027; US
    2000699015 20001027; US 2000699054 20001027; US 2000699038 20001027; US
    2000699021 20001027; US 2000699058 20001027; US 2000699056 20001027; US
    2000699037 20001027
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE
  ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT
  LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
  TR TT TZ UA UG UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 77244

Main International Patent Class: **G06F-017/60**
Fulltext Availability:
  Detailed Description
  Claims

Detailed Description
... locating processing parameter values in a Financial Service
  Organization (FSO) computer system using pre-configured **key
  definitions** , **key   values** , and **key   value   search   masks** .

  In one embodiment, data may be stored in tables in a **database** . In one
  embodiment, a **key   definition** table, one or more process control data
  (PCD) tables for storing processing parameter values and...of Figure F-5;
  Figure F-7 illustrates one embodiment of a structure for a **database**
  table for storing **key   definitions** ; Figure F-8 illustrates one
  embodiment of a structure for a **database** table for referencing **search
  masks** ; Figure F-9 illustrates one embodiment of a structure for a
  user-defined PCD table with **key   values** and data
  values ;
  Figure F- 1 0 illustrates one embodiment of several PCD tables in an FSO
  system...

...of Figure G-8;
  Figure G-10 illustrates one embodiment of a structure for a **database**
  table for storing **key   definitions** ; Figure G- 1 1 -illustrates one
  embodiment of a structure for a **database** table for referencing **search
  masks** ; Figure G-12 illustrates one embodiment of a structure for a
  user-defined PCD table with **key   values** and
  data **values** ;
  Figure G- 1 3 illustrates one embodiment of several PCD tables in an FSO
  system...of PCD table C 320 as described above may be repeated with the
  alternate processing **key   value** .

  82
  Program instructions 514 may use **key   definition** 5 10 and **search
  mask** 524 to build a first **key   value** 528 from **data   element** values
  read from **database** 518 and transaction 502. Program instructions 514
  may use the data elements in key defiriftion...key building program 506,
  and a PCD program 512. The system may also include a **database** 518, a
  PCD **key   definition** table 508, a **search   mask** table 522, and a PCD
  table C 526. In one embodiment, **database** 518 may include customer
  account
  84
  Figure F-3b illustrates one embodiment of building a...

...Figure F-3b, key building program 506 may include program instructions
  514 for building a **key   value** . Program instructions 514 may use **key
  definition** 510 and a second **search   mask** 530 read from **search   mask**
  table 522 to build a second **key   value** 532 from **data   element**
  values read from **database** 518 and transaction 502. Program instructions
  514 may use the data elements in key definition...One embodiment of a PCD
  table search process in an FSO system may use the **search   masks** in a
  search   mask table to construct processing **key   values** from a
  customer account **data   set** . In one embodiment, the search process may
  start at the first **search   mask** in the **search   mask** table, build a
  processing **key   value** from the customer
  87
  Figure F-7 - One embodiment of a structure for a database...defined key
  defmitions and search masks, there is one table 205 in an FSO system
  database . In one embodiment of an FSO system using userdefined **key
  definitions** and **search   masks** , there is one row in table 205 for each
  PCD table in the FSO system...In search 1, the PCD table search process
  uses key defiriftion 150 and the first **search   mask** in **search   mask**
  table 180 to construct processing **key   values** for a fir st customer

account data set . In the first search mask , all mask values are
set to the equal mask field value . A first processing key value is
constructed using the first search mask .

Key element X is set to the value 12 read from the customer account data
...

...requesting process in the FSO system.
In search 2, the PCD table search process uses key definition 150 and
the first search mask in search mask table 180 to construct
processing key values for a second customer account data set . A
first processing key value is constructed using the first search
mask . Key element X is set to the value 12 read from the customer
account data...

...12, MSC, Y). No
90
system.

In search 4, the PCD table search process uses key definition 150 and
the first search mask in search mask table 180 to construct
processing key values for a fourth customer account data set . A
'first processing key value is constructed using the first search
mask . Key element X is set to the value 14 read from the customer
account data...and equal mask field values. In one embodiment, an equal
mask field value in a search mask field may specify that, when
constructing a processing key value from data element values in
the transaction data set and related databases, the key element
value in the processing key value corresponding to the...equal mask field
value in a mask field may specify that, when constructing a processing
key value from the data element values in a customer account data
   set
98
include search masks where all mask fields are set to wildcard mask
field values.

Figure G- IO - One embodiment of a...

...an FSO system. A table 205 may include PCD table identifiers 206 and
references to search mask tables 208. In one embodiment of an FSO
system using user-defined key definitions and search masks , there
is one table 205 in an FSO system database . In one embodiment of an FSO
system using userdefined key definitions and search masks , there
is one row in table 205 for each PCD table in the FSO system...data set
in an FSO system.

In search 1, the PCD table search process uses key definition 150 and
the first search mask in search mask table 180 to construct
processing key values for a first customer account data set . In the
first search mask , all mask values are set to the equal mask field
value . A first processing key value is constructed using the first
search mask .
101
Key element X is set to the value 12 read from the customer account...

...In search 2, the PCD table search process uses key defiriftion 150 and
the first search mask in search mask table 180 to construct
processing key values for a second customer account data set . A
first processing key value is constructed using the first search
mask . Key element X is set to the value 12 read from the customer
account data...

...requesting process in the FSO system.

In search 3, the PCD table search process uses key definition 150 and

the first **search** **mask** in **search** **mask** table 180 to construct
processing **key** **values** for a third customer account **data** **set** . A
first processing **key** **value** is constructed using the first **search**
mask . Key element X is set to the value 12 read from the customer
account data...requesting process in the FSO system.

In search 4, the PCD table search process uses **key** **definition** 150 and
the first **search** **mask** in **search** **mask** table 180 to construct
processing **key** **values** for a fourth customer account **data** **set** . A
first processing **key** **value** is constructed using the first **search**
mask . Key element X is set to the value 14 read from the customer
account data...

Claim
... transaction-related data;
  reading from the transaction-related data the one or more data element
  values described in the **key**
   definition ;
  reading a **search** **mask** from the **database** , wherein the **search** **mask**
   comprises one or more **search** **mask** fields, wherein each of the one or
  more search mask fields corresponds to one of...related data in the FSO
  computer system.
  155
  . The method of claim 34, wherein the **key** **definition** , **search** **mask**
  , and one or more **key** **values** in the **database** are defined by a user
  of the FSO computer system during a configuration of the...

...transaction-related data; reading from the transaction-related data the
  one or more data element **values** described
  in the **key** **definition** ;
  reading a **search** **mask** from the **database** , wherein the **search** **mask**
   comprises one or more **search** **mask** fields, wherein each of the one or
  more search mask fields corresponds to one of...
...related data in the FSO computer system. 444. The system of claim 36,
  wherein the **key** **definition** , **search** **mask** , and one or more **key**
  values in the **database** are defined by a user of the FSO computer
  system during a configuration of the...

...transaction-related data;
  reading from the transaction-related data the one or more data element
  values described in the **key**
   definition ;
  reading a **search** **mask** from the **database** , wherein the **search** **mask**
   comprises one or more **search** **mask** fields, wherein each of the one or
  more search mask fields corresponds to one of...

...data in the FSO computer system. 446. The carrier medium of claim 38,
  wherein the **key** **definition** , **search** **mask** , and one or more **key**
  values in the **database** are defined by a user of the FSO computer
  system during a configuration of the...values in the one or more rows of
  the processing parameter table to which the **key** **definition** is
  associated.
  450. The method of claim 40, further comprising:
  reading a **search** **mask** from the FSO **database** , wherein the search
  mask comprises one or more search mask fields, wherein each of the...

POUR. LA CONCEPTION DE STRUCTURES D'UTILISATEURS DESTINEES A PRESERVER LES PREFERENCES, ROLES ET DETAILS DES UTILISATEURS

Patent Applicant/Assignee:
  ACCENTURE LLP, Parkstraat 83, NL-2514 JG 's Gravenhage, The Hague, NL, NL
    (Residence), NL (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
  UNDERWOOD Roy A, 4436 Hearthmoor Court, Long Grove, IL 60047, US, US
    (Residence), US (Nationality), (Designated only for: US)
Legal Representative:
  HICKMAN Paul L (agent), Oppenheimer Wolff & Donnelly LLP, 1400 Page Mill
    Road, Palo Alto, CA 94304, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200109792 A2-A3 20010208 (WO 0109792)
  Application: WO 2000US20549 20000728 (PCT/WO US0020549)
  Priority Application: US 99364091 19990730
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM
  HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX
  NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 122232

Main International Patent Class: **G06F-017/30**
Fulltext Availability:
  Detailed Description

Detailed Description
... In the event that this is a new application, the developer may use the
  appropriate **template** from **source code control** .

  As needed, DBA 2602 checks required **database source code** out of
  source code control . Also as needed, DBA works with development team
  to approve and prepare modifications to development...

 17/3,K/19   (Item 19 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2005 WIPO/Univentio. All rts. reserv.

00776073   **Image available**
METHOD AND SYSTEM FOR CREATING A CRYSTALLIZATION RESULTS DATABASE
**PROCEDE ET SYSTEME DE CREATION D'UNE BASE DE DONNEES DE RESULTATS DE
  CRISTALLISATION**
Patent Applicant/Assignee:
  EMERALD BIOSTRUCTURES INC, 7869 N.E. Day Road, Bainbridge Island, WA
    98110, US, US (Residence), US (Nationality)
Inventor(s):
  STEWART Lansing J, 11727 N.E. Kirk Avenue, Bainbridge Island, WA 98110,
    US,
  KIM Hidong, 9999 Winther Road, Bainbridge Island, WA 98110, US,
  FLEUCHAUS Lucius, 10618 N.E. 13th Street, Bellevue, WA 98004, US,
  DUNN Paul, 6761 N.E. Seabold Road, Bainbridge Island, WA 98110, US,
Legal Representative:
  CRUZ Laura A (agent), Christensen O'Connor Johnson & Kindness PLLC, Suite
    2800, 1420 Fifth Avenue, Seattle, WA 98101, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200109595 A2-A3 20010208 (WO 0109595)
  Application: WO 2000US21043 20000802 (PCT/WO US0021043)

Priority Application: US 99146737 19990802; US 2000631185 20000802
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE
  ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT
  LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
  TR TT TZ UA UG UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 60223

International Patent Class: **G06F-017/30 ...**
Fulltext Availability:
  Detailed Description

Detailed Description
... button 2802 opens a drop down list of all of the matrices available in
  a **database** . Clicking on a **selected** **matrix** enters the **matrix** into
  the **source** matrix **field** box 2804. Clicking on a **selected** **matrix**
  also causes source matrix wells to be displayed in a list box 2805
  located to...

17/3,K/24   (Item 24 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2005 WIPO/Univentio. All rts. reserv.

00512805   **Image available**
METHOD AND SYSTEM FOR MULTI-ENTRY AND MULTI-TEMPLATE MATCHING IN A DATABASE
PROCEDE   ET SYSTEME DE MISE EN CORRESPONDANCE MULTIRUBRIQUE ET MULTIGABARIT
     DANS UNE BASE DE DONNEES
Patent Applicant/Assignee:
  SUN MICROSYSTEMS INC,
Inventor(s):
  SCHEIFLER Robert,
  ARNOLD Kenneth C R C,
  WALDO James H,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 9944157 A1 19990902
  Application: WO 99US4146 19990225   (PCT/WO US9904146)
  Priority Application: US 9876048 19980226; US 9844835 19980320
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH
  GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN
  MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW
  GH GM KE LS MW SD SL SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE
  DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR
  NE SN TD TG
Publication Language: English
Fulltext Word Count: 13471

Main International Patent Class: **G06F-017/30**
Fulltext Availability:
  Detailed Description

Detailed Description
... which allows queries to be made upon entries (or multi-entries,
  described later) in the **database** . In one implementation, each **query**

                    Caryn Wesner-Early EIC 3600 February 8, 2005 8

includes a **template** that specifies the values (or attributes) of the
key fields of a given entry which must match corresponding fields of
the template to result in...

 17/3,K/26   **(Item 26 from file: 349)**

DIALOG(R)File 349:PCT FULLTEXT
(c) 2005 WIPO/Univentio. All rts. reserv.

00450363   **Image available**
METHOD AND SYSTEM FOR DEFINING TRANSACTIONS FROM A DATABASE LOG
**PROCEDE ET SYSTEME PERMETTANT DE DEFINIR DES TRANSACTIONS A PARTIR D'UN
    JOURNAL DE BASE DE DONNEES**
Patent Applicant/Assignee:
  LAKEVIEW TECHNOLOGY,
  ZAIKEN Kenneth A,
  DEHOND Guy,
  BOGGS Dan,
Inventor(s):
  ZAIKEN Kenneth A,
  DEHOND Guy,
  BOGGS Dan,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 9840827 A1 19980917
  Application: WO 98US5087 19980316   (PCT/WO US9805087)
  Priority Application: US 97818513 19970314
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM
  GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX
  NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW GH
  GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI
  FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG
Publication Language: English
Fulltext Word Count: 10596

Main International Patent Class: **G06F-017/00**
International Patent Class: **G06F-017/30**
Fulltext Availability:
  Detailed Description
  Claims

Detailed Description
... transaction. The data stored in the record includes data values from
  data fields in the **database** , and **templates** are **selected** by
  selecting a **template** having a **key value** which matches one or more
  of the data fields whose data values are in the...

Claim
... wherein the data stored in the record 111CILides data values from data
  fields in the **database** . and wherein the step of selecting one of the
  32
   templates comprises **selecting** a **template** having a **key value**
  which matches one or more of the data fields whose data values are in the

17/AN,AZ,TI/1   (Item 1 from file: 348)

01504244
DATA ACCESS MANAGEMENT SYSTEM AND MANAGEMENT METHOD USING ACCESS CONTROL
    TICKET
DATENZUGRIFFSMANAGEMENTSYSTEM UND MANAGEMENTVERFAHREN MIT EINEM
    ZUGRIFFSSTEUERTICKET
SYSTEME DE GESTION D'ACCES AUX DONNEES ET PROCEDE DE GESTION UTILISANT UN
    BILLET DE COMMANDE D'ACCES
APPLICATION (CC, No, Date):   EP 2002702791 020307;   WO 2002JP2113   020307
PRIORITY (CC, No, Date): JP 200173353 010315

17/AN,AZ,TI/2   (Item 2 from file: 348)

00650776
Indexing/compression scheme for supporting graphics and data selection
Indexierungs-/Komprimierungsschema zur Unterstutzung von Graphiken und
    Datenselektion
Arrangement d'indexation/compression pour supporter des graphiques et la
    selection de donnees
APPLICATION (CC, No, Date):   EP 93109048 930604;
PRIORITY (CC, No, Date): EP 93109048 930604

17/AN,AZ,TI/3   (Item 3 from file: 348)

00624646
Indexing multimedia objects
Indexierung von Multimediaobjekten
Indexation d'objets multimedia
APPLICATION (CC, No, Date):   EP 93119514 931203;
PRIORITY (CC, No, Date): US 13888 930202

17/AN,AZ,TI/4   (Item 4 from file: 349)

01153716
SEMANTIC KNOWLEDGE RETRIEVAL MANAGEMENT AND PRESENTATION
SYSTEME ET PROCEDE POUR UNE EXTRACTION, UNE GESTION, UNE CAPTURE, UN
    PARTAGE, UNE DECOUVERTE, UNE DISTRIBUTION ET UNE PRESENTATION DE
    CONNAISSANCES SEMANTIQUES
  Application: WO 2004US4674 20040217   (PCT/WO US04004674)

17/AN,AZ,TI/5   (Item 5 from file: 349)

01146113
RULE-BASED SYSTEM AND METHOD FOR MACHINING A PART
SYSTEME A BASE DE REGLES ET PROCEDE POUR USINER UNE PIECE
  Application: WO 2003US41238 20031223   (PCT/WO US03041238)

17/AN,AZ,TI/6   (Item 6 from file: 349)

01055617
COMPARISON OF SOURCE FILES
COMPARAISON DE FICHIERS SOURCE
  Application: WO 2003EP3698 20030409   (PCT/WO EP03003698)

17/AN,AZ,TI/7   (Item 7 from file: 349)

01051387
SEARCH MEANS CONTAINING FIXED-LENGTH ADDRESSES GENERATED BY A HASH FUNCTION
MOYENS DE RECHERCHE CONTENANT DES ADRESSES DE LONGUEUR FIXE PRODUITES PAR
    UNE FONCTION DE HACHAGE
    Application: WO 2002FI257 20020326 (PCT/WO FI0200257)

17/AN,AZ,TI/8   (Item 8 from file: 349)

00886063
HEURISTIC AUTOMATED METHOD FOR IDEAL BUFFERPOOL TUNING IN A COMPUTER
    DATABASE
PROCEDE AUTOMATISE HEURISTIQUE PERMETTANT UN REGLAGE IDEAL DE POOL TAMPON
    DANS UNE BASE DE DONNEES INFORMATIQUE
    Application: WO 2001US26311 20010823 (PCT/WO US0126311)

17/AN,AZ,TI/9   (Item 9 from file: 349).

00872890
SYSTEM AND METHOD FOR SYNCHRONIZING DATABASES
SYSTEME ET PROCEDE DE SYNCHRONISATION DE BASES DE DONNEES
    Application: WO 2001IB1590 20010713 (PCT/WO IB0101590)

17/AN,AZ,TI/10   (Item 10 from file: 349)

00841999
A SYSTEM FOR PERSONALIZING AND DISTRIBUTING GEOGRAPHICALLY DISTINCTIVE
    PRODUCTS OVER THE INTERNET
SYSTEME POUR PERSONNALISER ET DISTRIBUER DES PRODUITS SE DISTINGUANT EN
    FONCTION DU LIEU GEOGRAPHIQUE SUR L'INTERNET
    Application: WO 2001US10945 20010403 (PCT/WO US0110945)

17/AN,AZ,TI/11   (Item 11 from file: 349)

00812308
PARALLEL DATA ACCESS PROCEDURE FOR B-TREE STRUCTURES
PROCEDURE D'ACCES A DES DONNES EN PARALLELE POUR STRUCTURES A ARBRE BALANCE
    Application: WO 2000MK3 20001122 (PCT/WO MK0000003)

17/AN,AZ,TI/12   (Item 12 from file: 349)

00809292
TIMESHARED ELECTRONIC CATALOG SYSTEM AND METHOD
SYSTEME DE CATALOGUES ELECTRONIQUES A TEMPS PARTAGE ET PROCEDE ASSOCIE
    Application: WO 2000US42712 20001205 (PCT/WO US0042712)

17/AN,AZ,TI/13   (Item 13 from file: 349)

00806389

SCHEDULING AND PLANNING BEFORE AND PROACTIVE MANAGEMENT DURING MAINTENANCE
    AND SERVICE IN A NETWORK-BASED SUPPLY CHAIN ENVIRONMENT
PROGRAMMATION ET PLANIFICATION ANTICIPEE, ET GESTION PROACTIVE AU COURS DE
    LA MAINTENANCE ET DE L'ENTRETIEN D'UN ENVIRONNEMENT DU TYPE CHAINE
    D'APPROVISIONNEMENT RESEAUTEE
    Application: . WO 2000US32228 20001122 (PCT/WO US0032228)

   17/AN,AZ,TI/14   (Item 14 from file: 349)
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

00806384
NETWORK AND LIFE CYCLE ASSET MANAGEMENT IN AN E-COMMERCE ENVIRONMENT AND
    METHOD THEREOF
GESTION D'ACTIFS DURANT LE CYCLE DE VIE ET EN RESEAU DANS UN ENVIRONNEMENT
    DE COMMERCE ELECTRONIQUE ET PROCEDE ASSOCIE
    Application: WO 2000US32324 20001122 (PCT/WO US0032324)

   17/AN,AZ,TI/15   (Item 15 from file: 349)
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

00799831
BUSINESS TRANSACTION PROCESSING SYSTEMS AND METHODS
SYSTEMES ET PROCEDES DE TRAITEMENT DE TRANSACTIONS COMMERCIALES
    Application: WO 2000US29978 20001030 (PCT/WO US0029978)

   17/AN,AZ,TI/16   (Item 16 from file: 349)
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

00783289
APPARATUS AND METHOD FOR CREATING A MARKETING INITIATIVE
APPAREIL ET PROCEDE POUR CREER UNE INITIATIVE DE COMMERCIALISATION
    Application: WO 2000US23632 20000829 (PCT/WO US0023632)

   17/AN,AZ,TI/17   (Item 17 from file: 349)
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

00777021
A SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR AN E-COMMERCE BASED USER
    FRAMEWORK DESIGN FOR MAINTAINING USER PREFERENCES, ROLES AND DETAILS
SYSTEME, PROCEDE ET ARTICLE MANUFACTURE UTILISES EN COMMERCE ELECTRONIQUE
    POUR LA CONCEPTION DE STRUCTURES D'UTILISATEURS DESTINEES A PRESERVER
    LES PREFERENCES, ROLES ET DETAILS DES UTILISATEURS
    Application: WO 2000US20549 20000728 (PCT/WO US0020549)

   17/AN,AZ,TI/18   (Item 18 from file: 349)
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

00777017
A SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR A HOST FRAMEWORK DESIGN IN
    AN E-COMMERCE ARCHITECTURE
SYSTEME, PROCEDE ET ARTICLE DE PRODUCTION DESTINES A LA CONCEPTION D'UNE
    STRUCTURE D'ORDINATEUR CENTRAL DANS UNE ARCHITECTURE DE COMMERCE
    ELECTRONIQUE
    Application: WO 2000US20560 20000728 (PCT/WO US0020560)

   17/AN,AZ,TI/19   (Item 19 from file: 349)
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

00776073

METHOD AND SYSTEM FOR CREATING A CRYSTALLIZATION RESULTS DATABASE
PROCEDE ET SYSTEME DE CREATION D'UNE BASE DE DONNEES DE RESULTATS DE
    CRISTALLISATION
    Application: WO 2000US21043 20000802 (PCT/WO US0021043)

    17/AN,AZ,TI/20   (Item 20 from file: 349)

00761432
METHODS, CONCEPTS AND TECHNOLOGY FOR DYNAMIC COMPARISON OF PRODUCT FEATURES
    AND CUSTOMER PROFILE
PROCEDES,   CONCEPTS   ET   TECHNIQUE   DE   COMPARAISON   DYNAMIQUE   DE
    CARACTERISTIQUES D'UN PRODUIT ET DU PROFIL DES CONSOMMATEURS
    Application: WO 2000US14459 20000524 (PCT/WO US0014459)

    17/AN,AZ,TI/21   (Item 21 from file: 349)

00761429
METHODS, CONCEPTS AND TECHNOLOGY FOR A VIRTUAL SHOPPING SYSTEM CAPABLE OF
    ASSESSING NEEDS OF A CUSTOMER AND RECOMMENDING A PRODUCT OR SERVICE
    BASED ON SUCH ASSESSED NEEDS
PROCEDES, CONCEPTS ET TECHNOLOGIE POUR SYSTEME D'ACHAT VIRTUEL CAPABLE
    D'EVALUER LES BESOINS D'UN CLIENT ET DE RECOMMANDER UN PRODUIT OU UN
    SERVICE SUR LA BASE DE CES BESOINS
    Application: WO 2000US14357 20000524 (PCT/WO US0014357)

    17/AN,AZ,TI/22   (Item 22 from file: 349)

00761422
BUSINESS ALLIANCE IDENTIFICATION
SYSTEME, PROCEDE ET ARTICLE DE PRODUCTION POUR L'IDENTIFICATION D'ALLIANCES
    COMMERCIALES DANS UN CADRE D'ARCHITECTURE RESEAU
    Application: WO 2000US14375 20000524 (PCT/WO US0014375)

    17/AN,AZ,TI/23   (Item 23 from file: 349)

00512806
METHOD AND SYSTEM FOR TYPESAFE ATTRIBUTE MATCHING
PROCEDE ET SYSTEME DE MISE EN CORRESPONDANCE SUR DES ATTRIBUTS DE TYPE
    GARANTI
    Application: WO 99US4148 19990225 (PCT/WO US9904148)

    17/AN,AZ,TI/24   (Item 24 from file: 349)

00512805
METHOD AND SYSTEM FOR MULTI-ENTRY AND MULTI-TEMPLATE MATCHING IN A DATABASE
PROCEDE ET SYSTEME DE MISE EN CORRESPONDANCE MULTIRUBRIQUE ET MULTIGABARIT
    DANS UNE BASE DE DONNEES
    Application: WO 99US4146 19990225 (PCT/WO US9904146)

    17/AN,AZ,TI/25   (Item 25 from file: 349)

00512804
METHOD AND SYSTEM FOR IN-PLACE MODIFICATIONS IN A DATABASE

PROCEDE ET SYSTEME SERVANT A EFFECTUER DES MODIFICATIONS EN PLACE DANS UNE
    BASE DE DONNEES
    Application:·   WO 99US4071 19990225   (PCT/WO US9904071)

  17/AN,AZ,TI/26   **(Item 26 from file: 349)**
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

00450363
METHOD AND SYSTEM FOR DEFINING TRANSACTIONS FROM A DATABASE LOG
PROCEDE ET SYSTEME PERMETTANT DE DEFINIR DES TRANSACTIONS A PARTIR D'UN
    JOURNAL DE BASE DE DONNEES
    Application: WO 98US5087 19980316   (PCT/WO US9805087)

  17/AN,AZ,TI/27   **(Item 27 from file: 349)**
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

00376923
STRUCTURED FOCUSED HYPERTEXT DATA STRUCTURE
STRUCTURE DE DONNEES HYPERTEXTE ARTICULEE SUR LA STRUCTURATION
    Application: WO 96IL131 19961023   (PCT/WO IL9600131)

  17/AN,AZ,TI/28   **(Item 28 from file: 349)**
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

00294697
APPARATUS FOR ACCELERATING PROCESSING OF TRANSACTIONS ON COMPUTER DATABASES
APPAREIL D'ACCELERATION DU TRAITEMENT DES TRANSACTIONS SUR DES BASES DE
    DONNEES INFORMATIQUES
    Application: WO 94US11261 19941004   (PCT/WO US9411261)

  17/AN,AZ,TI/29   **(Item 29 from file: 349)**
DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

00293338
DATABASE USING TABLE ROTATION AND BIMAPPED QUERIES
BASE DE DONNEES A ROTATION DE TABLES ET A INTERROGATIONS EN MODE POINT
    Application: WO 94US12074 19941024   (PCT/WO US9412074)

```
?show files;ds
File    2:INSPEC 1969-2005/Jan W5
          (c) 2005 Institution of Electrical Engineers
File   35:Dissertation Abs Online 1861-2005/Jan
          (c) 2005 ProQuest Info&Learning
File   65:Inside Conferences 1993-2005/Feb W1
          (c) 2005 BLDSC all rts. reserv.
File   99:Wilson Appl. Sci & Tech Abs 1983-2004/Nov
          (c) 2005 The HW Wilson Co.
File  474:New York Times Abs 1969-2005/Feb 07
          (c) 2005 The New York Times
File  475:Wall Street Journal Abs 1973-2005/Feb 07
          (c) 2005 The New York Times
File  583:Gale Group Globalbase(TM) 1986-2002/Dec 13
          (c) 2002 The Gale Group
File  256:TecInfoSource 82-2004/Dec
          (c) 2004 Info.Sources Inc
File  139:EconLit 1969-2005/Jan
          (c) 2005 American Economic Association
File    8:Ei Compendex(R) 1970-2005/Jan W3
          (c) 2005 Elsevier Eng.  Info. Inc.
File    6:NTIS 1964-2005/Jan W5
          (c) 2005 NTIS, Intl Cpyrght All Rights Res
File  144:Pascal 1973-2005/Jan W5
          (c) 2005 INIST/CNRS
File    7:Social SciSearch(R) 1972-2005/Jan W5
          (c) 2005 Inst for Sci Info
File  121:Brit.Education Index 1976-2004/Q3
          (c) 2005 British Education Index
File  111:TGG Natl.Newspaper Index(SM) 1979-2005/Feb 03
          (c) 2005 The Gale Group
File  437:Education Abstracts 1983-2004/Nov
          (c) 2005 The HW Wilson Co
File  438:Library Lit. & Info. Science 1984-2004/Nov
          (c) 2005 The HW Wilson Co


Set     Items     Description
S1     8619462   KEY OR CONTROL OR CONTROLLING OR MASTER OR PRIMARY OR PRIME
                  OR AUTHORITY OR BACKBONE OR CORE OR ESSENTIAL OR FOUNDATION -
                  OR PRINCIPAL OR PRINCIPLE OR ROOT OR SOURCE OR BASAL OR ELEME-
                  NTAL OR FUNDAMENTAL
S2     6440822   DEFINITION? ? OR VALUE? ? OR DATA()(ELEMENT? ? OR ITEM? ?)
                  OR DATAFIELD? ? OR TAG? ? OR LABEL? ? OR FIELD? ? OR CODE? ? -
                  OR FIELDNAME? ?
S3     4582802   SEARCH??? OR LOCATION OR SELECT??? OR RETRIEV??? OR CRAWL?-
                  ?? OR SPIDER??? OR QUERY??? OR QUERIES OR ACCESS OR BROWSING -
                  OR FIND???
S4     8061804   MASK? ? OR FILTER? ? OR TEMPLATE? ? OR RULE()(SET? ? OR BA-
                  SE) OR RULESET? ? OR SET? ?(2W)RULES OR RULEBASE? ? OR RULE? ?
                  OR PROCEDURE? ? OR MATRIX?? OR MATRICES OR STRUCTURE? ? OR F-
                  RAMEWORK? ?
S5     1021256   (TRANSACTION OR MULTIPLICATIVE)()(DATA OR INFORMATION) OR -
                  DATABASE? ? OR DATABANK? ? OR DATASET? ? OR DATAFILE? ? OR (D-
                  ATA OR INFORMATION OR KNOWLEDGE)()(BASE? ? OR BANK? ? OR SET?
                  ? OR FILE? ?) OR DB OR KNOWLEDGEBASE
S6      234916   S1(5N)S2
S7      186057   S3(5N)S4
S8         168   S5(S)S6(S)S7
S9          31   S5(10N)S6(10N)S7
S10         25   S9 NOT PY>2000
S11         25   S10 NOT PD=20001028:20050331
S12         21   RD (unique items)
```

12/3,K/2   (Item 2 from file: 2)
DIALOG(R)File   2:INSPEC

4659431   INSPEC Abstract Number: B9406-1130B-019, C9406-7410D-085
  Title: **An expert system model for IC mask layout compaction**
  Author(s): Jae Hwang Lee; Chu Shik Jhon
  Journal: Journal of the Korea Information Science Society   vol.20, no.3
p.408-21
  Publication Date: March 1993 Country of Publication: South Korea
  CODEN: HJKHDC ISSN: 0258-9125
  Language: Korean
  Subfile: B C

  ...Abstract: based expert system model for mask layout compaction. Our
model addresses effective means of representing **mask** layout compaction
knowledge, such as **access** methods to **mask** objects, **mask** layout
abstraction, mask layout localization, and explicit **definition** of rule
application **control** strategy. In order to show the validity of our model,
we devise a mask layout...

12/3,K/3   (Item 3 from file: 2)
DIALOG(R)File   2:INSPEC

04012725   INSPEC Abstract Number: C91072759
  Title: **Compiling a rule database program into a C/SQL application**
  Author(s): Kiernan, G.; de Maindreville, C.
  Author Affiliation: INRIA, Le Chesnay, France
  Conference Title: Proceedings. Seventh International Conference on Data
Engineering (Cat. No.91CH2968-6)   p.388-95
  Publisher: IEEE Comput. Soc. Press, Los Alamitos, CA, USA
  Publication Date: 1991 Country of Publication: USA   xviii+766 pp.
  ISBN: 0 8186 2138 9
  U.S. Copyright Clearance Center Code: CH2968-6/91/0000-0388$01.00
  Conference Sponsor: IEEE
  Conference Date: 8-12 April 1991   Conference Location: Kobe, Japan
  Language: English
  Subfile: C

  ...Abstract: ordering among rules is available to the user. The RDL/C
compiler translates RDL/C **source**   **code** into C **code** with embedded
structured   **query** language (SQL) statements. Its implementation is
compared to fully integrated deductive **databases** and to loosely coupled
systems. It is shown how the rule-based paradigm for a...

12/3,K/9   (Item 9 from file: 2)
DIALOG(R)File   2:INSPEC

02746780   INSPEC Abstract Number: C86050259
  Title: **Knowledge representation language**
  Author(s): Koyama, T.
  Author Affiliation: Hospital Comput. Center, Hamamatsu Univ., Shizuoka,
Japan
  Journal: Information Processing Society of Japan   vol.26, no.12   p.
1529-35
  Publication Date: 1985 Country of Publication: Japan
  CODEN: JOSHA4 ISSN: 0447-8053
  Language: Japanese
  Subfile: C

  ...Abstract: point of view. The subject of knowledge representation is

particularly important in the development of **knowledge base** systems. A **knowledge base** system developing environment constructed by arranging a **knowledge base control** function such as **definition** , edit and **retrieval** of knowledge and knowledge application **structure** with specific knowledge representation as the center is called is called knowledge representation language.

12/3,K/10   (Item 10 from file: 2)
DIALOG(R)File   2:INSPEC
(c) 2005 Institution of Electrical Engineers. All rts. reserv.

02622432   INSPEC Abstract Number: C86019908
 Title: **MAMED small medical database system**
  Author(s): Sefranek, J.; Skuarenina, M.
  Journal: Mechanizace Automatizace Administrativy   vol.25, no.12   p. 466-7
  Publication Date: 1985 Country of Publication: Czechoslovakia
  CODEN: MAUAAU ISSN: 0322-8452
  Language: Slovak
  Subfile: C

  ...Abstract: with data stored in the leaves of the trees. Six functional modules of the MAMED **database** are described dealing with the following topics: **control** and support functions; user files **definition** ; data input into the **database** ; file **structure** and content modification; data **retrieval** ; and statistical analysis.

12/3,K/19   (Item 3 from file: 6)
DIALOG(R)File   6:NTIS
(c) 2005 NTIS, Intl Cpyrght All Rights Res. All rts. reserv.

1692788 NTIS Accession Number: MIC-89-04625
  Bugwatch: Program reference manual
  Yee, J. M. ; Yee, S.
  Agriculture Canada, Ottawa (Ontario). Research Branch.
  Corp. Source Codes: 095534003
  Report No.: ISBN-0-662-16764-3
  c1989   166p
  Languages: English
  Journal Announcement: GRAI9304
  Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
  NTIS Prices: PC E12/MF E01

  ... This document presents a disk directory tree and subdirectory contents; a description of all the **data files** ; the **procedure / data file access matrix** ; and a complete program **source code** listing.

12/AA,AN,TI/1   (Item 1 from file: 2)

Title: A database application generator for the WWW

12/AA,AN,TI/2   (Item 2 from file: 2)

Title: An expert system model for IC mask layout compaction

12/AA,AN,TI/3   (Item 3 from file: 2)

Title: Compiling a rule database program into a C/SQL application

12/AA,AN,TI/4   (Item 4 from file: 2)

Title: Database reliability: the black box

12/AA,AN,TI/5   (Item 5 from file: 2)

Title: A Prolog rule-based system for cartographic name placement

12/AA,AN,TI/6   (Item 6 from file: 2)

Title: Uplift design of transmission tower foundations in sand: a probabilistic approach

12/AA,AN,TI/7   (Item 7 from file: 2)

Title: dBASE IV: a Paradox killer?

12/AA,AN,TI/8   (Item 8 from file: 2)

Title: Simple but effective (secretariat system)

12/AA,AN,TI/9   (Item 9 from file: 2)

Title: Knowledge representation language

12/AA,AN,TI/10   (Item 10 from file: 2)

Title: MAMED small medical database system

12/AA,AN,TI/11   (Item 1 from file: 35)

01785256
Topology based methods for vector field comparisons

12/AA,AN,TI/12   (Item 2 from file: 35)

0961546
APPLICATION OF AN EXPERT FUZZY LOGIC CONTROLLER TO A ROTARY DRYING PROCESS

12/AA,AN,TI/13   (Item 1 from file: 8)

05048282
  E.I. No: EIP98074264753
  Title: Database application generator for the WWW

12/AA,AN,TI/14   (Item 2 from file: 8)

03900573
  E.I. No: EIP94071344918
  Title: Permeability determination from well logs and core data

12/AA,AN,TI/15   (Item 3 from file: 8)

03389934
  E.I. Monthly No: EI9203029301
   Title: Improving vehicle response to engine and road excitation using
interactive graphics and modal reanalysis methods.

 12/AA,AN,TI/16   (Item 4 from file: 8)

02949902
  E.I. Monthly No: EI9009103077
  Title: Selecting the best distillation control configuration.

12/AA,AN,TI/17   (Item 1 from file: 6)

  NTIS Accession Number: AD-A317 388/7
  Evolving Fuzzy Logic Control Strategies using SAMUEL: An Initial
Implementation

12/AA,AN,TI/18   (Item 2 from file: 6)

NTIS Accession Number: TIB/A95-05331
Better formal basis for stating SQL-like queries in value- and object-based DBS

12/AA,AN,TI/19   (Item 3 from file: 6)

NTIS Accession Number: MIC-89-04625
Bugwatch: Program reference manual

12/AA,AN,TI/20   (Item 4 from file: 6)

NTIS Accession Number: DE85003284
ELECT Groundwater Transport Research Code. Final Report

12/AA,AN,TI/21   (Item 5 from file: 6)

NTIS Accession Number: DE84015353
Computer Implementation of a Globally Averaged Model of the World Carbon Cycle

```
?show files;ds
File    9:Business & Industry(R) Jul/1994-2005/Feb 07
          (c) 2005   The Gale Group
File   15:ABI/Inform(R) 1971-2005/Feb 07
          (c) 2005 ProQuest Info&Learning
File   16:Gale Group PROMT(R) 1990-2005/Feb 08
          (c) 2005 The Gale Group
File   20:Dialog Global Reporter 1997-2005/Feb 08
          (c) 2005 The Dialog Corp.
File  148:Gale Group Trade & Industry DB 1976-2005/Feb 07
          (c)2005 The Gale Group
File  160:Gale Group PROMT(R) 1972-1989
          (c) 1999 The Gale Group
File  275:Gale Group Computer DB(TM) 1983-2005/Feb 08
          (c) 2005 The Gale Group


Set     Items    Description
S1    20261747   KEY OR CONTROL OR CONTROLLING OR MASTER OR PRIMARY OR PRIME
                 OR AUTHORITY OR BACKBONE OR CORE OR ESSENTIAL OR FOUNDATION -
                 OR PRINCIPAL OR PRINCIPLE OR ROOT OR SOURCE OR BASAL OR ELEME-
                 NTAL OR FUNDAMENTAL
S2    11639213   DEFINITION? ? OR VALUE? ? OR DATA()(ELEMENT? ? OR ITEM? ?)
                 OR DATAFIELD? ? OR TAG? ? OR LABEL? ? OR FIELD? ? OR CODE? ? -
                 OR FIELDNAME? ?
S3    15035817   SEARCH??? OR LOCATION OR SELECT??? OR RETRIEV??? OR CRAWL?-
                 ?? OR SPIDER??? OR QUERY??? OR QUERIES OR ACCESS OR BROWSING -
                 OR FIND???
S4     8359079   MASK? ? OR FILTER? ? OR TEMPLATE? ? OR RULE()(SET? ? OR BA-
                 SE) OR RULESET? ? OR SET? ?(2W)RULES OR RULEBASE? ? OR RULE? ?
                 OR PROCEDURE? ? OR MATRIX?? OR MATRICES OR STRUCTURE? ? OR F-
                 RAMEWORK? ?
S5     2148577   (TRANSACTION OR MULTIPLICATIVE)()(DATA OR INFORMATION) OR -
                 DATABASE? ? OR DATABANK? ? OR DATASET? ? OR DATAFILE? ? OR (D-
                 ATA OR INFORMATION OR KNOWLEDGE)()(BASE? ? OR BANK? ? OR SET?
                 ? OR FILE? ?) OR DB OR KNOWLEDGEBASE
S6     489881    S1(5N)S2
S7     198547    S3(5N)S4
S8        345    S5(S)S6(S)S7
S9     358957    S1(3N)S2
S10    139665    S3(3N)S4
S11        66    S5(10N)S9(10N)S10
S12        48    S5(7N)S9(7N)S10
S13        45    S12 NOT PY>2000
S14        45    S13 NOT PD=20001028:20050331
S15        33    RD (unique items)
```

15/3,K/8   (Item 3 from file: 16)

04641524   Supplier Number: 46828520   (USE FORMAT 7 FOR FULLTEXT)
DataMirror Reflects New Capabilities
MIDRANGE Systems, p030
Oct 25, 1996
Language: English   Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 312

   (USE FORMAT 7 FOR FULLTEXT)
TEXT:
...improved performance, new enhancements include support for multi-member
file structures, user exits at the **database** level, improved Windows NT
installation **procedures** , and **access** journal **control   fields** .

15/3,K/12   (Item 1 from file: 148)

10459843 . SUPPLIER NUMBER: 21128861   (USE FORMAT 7 OR 9 FOR FULL TEXT)
**DATABASE UPDATE.(relational database management software) (Technology
   Information)**
Mccormick, John
Government Computer News, v17, n29, p63(1)
Sept 7, 1998
ISSN: 0738-4300   LANGUAGE: English   RECORD TYPE: Fulltext
WORD COUNT: 2295   LINE COUNT: 00232

...   is then arranged in rows using indexed fields, and the query engine
joins tables of **data   based** on user-selected **key   fields** .
   The more sophisticated RDBMSes use **Structured   Query** Language as
the basis for creating a query, that

15/3,K/21   (Item 10 from file: 148)

04119097   SUPPLIER NUMBER: 07755222   (USE FORMAT 7 OR 9 FOR FULL TEXT)
The next generation. (the growing use of Structured Query Language)
Jackson, Peter
PC User, n115, p59(3)
Sept 13, 1989
ISSN: 0263-5720   LANGUAGE: ENGLISH   RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 2603   LINE COUNT: 00202

...   just 12 commands, it's very flexible and can control every aspect
of a relational **database** . Oracle describes it as a " **structured   query** ,
update, data **definition** , **control** , consistency, concurrency and
dictionary language". The simplicity of the language cmes from the fact
that...

15/3,K/22   (Item 1 from file: 160)

01154193
DATA BASE LANGUAGE STANDARDIZATION.
EDP WEEKLY   February 4, 1985   p. 4,5

.. Relational **Data** **Base** Systems wants its SQL language to be the
standard for **data** **base** programming, and has offered to share some of
its **source** **code** with systems developers. SQL, the **structured** **query**
language developed by IBM, accesses data within a **data** **base** , and also
defines relationships within the data base. To further back its commitment
to SQL...

15/3,K/24 **(Item 2 from file: 275)**
DIALOG(R)File 275:Gale Group Computer DB(TM)

01691115   SUPPLIER NUMBER: 15578887   (USE FORMAT 7 OR 9 FOR FULL TEXT)
A guide to data integrity rules. (PC Tech: Corporate Developer) (Column)
  (Tutorial)
Ricciardi, Sal
PC Magazine, v13, n14, p387(3)
August, 1994
DOCUMENT TYPE: Tutorial   ISSN: 0888-8507   LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 2460   LINE COUNT: 00191

...ABSTRACT: user-defined. The entity integrity rule mandates that all
rows be assigned an identifier or **primary - key** **value** . **Databases** that
support **primary** keys include Borland's Paradox for Windows and
Microsoft's **Access** . The referential integrity **rule** requires that
databases reject updates or deletions that change or eliminate the target
of a reference. Access includes...

15/3,K/30 **(Item 8 from file: 275)**
DIALOG(R)File 275:Gale Group Computer DB(TM)

01321029   SUPPLIER NUMBER: 08550029   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Data Based Advisor COMDEX sneak preview. (COMDEX '89; includes related
  article on Microrim Inc.'s next-generation database management system)
Data Based Advisor, v7, n11, p71(33)
Nov, 1989
ISSN: 0740-5200   LANGUAGE: ENGLISH   RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 24226   LINE COUNT: 02038

...   the data files can be as large as four billion bytes, with up to 24
 key **fields** per **data** **file** . The Data Dictionary maintains all **data**
file **structures** in one **location** . TAS uses the Btrieve File Management
System, to avoid degradation of file

15/3,K/31 **(Item 9 from file: 275)**
DIALOG(R)File 275:Gale Group Computer DB(TM)

01290841   SUPPLIER NUMBER: 07073636   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Database directions for the 90's. (The open database architecture of the
  90's.)
Kalman, David
Data Based Advisor, v7, n3, p52(5)
March, 1989
ISSN: 0740-5200   LANGUAGE: ENGLISH   RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 3553   LINE COUNT: 00296

...   In addition, organizations with applications already written in
other languages can adapt them to new **database** management systems without
re-coding.
    To take full advantage of relational **database** engines, programmers

can embed **Structured Query** Language (SQL) statements in the low level
language for data **definition** , **control** , and manipulation. Among its many
attributes (see sidebar), SQL provides a standardized access language that
...

 15/3,K/33   (Item 11 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

01208709   SUPPLIER NUMBER: 05031356 .   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Database design techniques. (relational DBMS applications programming)
Browning, Dave
PC Tech Journal, v5, n7, p112(12)
July, 1987   .
ISSN: 0738-0194   LANGUAGE: ENGLISH   RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 8914   LINE COUNT: 00703

...   methodology depends on the choice of data manager and should match
the requirements for the **database** application being developed. This
choice is an important part of the design process.
    Database   structure design, **key   field   selection** , index
specification, and query techniques all influence overall system
performance and require developers to pay...

15/AA,AN,TI/1   (Item 1 from file: 9)
DIALOG(R)File   9:(c) 2005 The Gale Group. All rts. reserv.

1192565 Supplier Number: 01192565
Apple Inks Agreement With Visigenic, IBM

15/AA,AN,TI/2   (Item 1 from file: 15)
DIALOG(R)File 15:(c) 2005 ProQuest Info&Learning. All rts. reserv.

02012585 52687228
Automated collision database and reporting system for Nashville

15/AA,AN,TI/3   (Item 2 from file: 15)
DIALOG(R)File 15:(c) 2005 ProQuest Info&Learning. All rts. reserv.

01551040 02-02029
Microsoft Access 97

15/AA,AN,TI/4   (Item 3 from file: 15)
DIALOG(R)File 15:(c) 2005 ProQuest Info&Learning. All rts. reserv.

01064806 97-14200
ODBC and UNIX: Port no more?

15/AA,AN,TI/5   (Item 4 from file: 15)
DIALOG(R)File 15:(c) 2005 ProQuest Info&Learning. All rts. reserv.

00956535 96-05928
Contact management software: It's not what you know

15/AA,AN,TI/6   (Item 1 from file: 16)
DIALOG(R)File 16:(c) 2005 The Gale Group. All rts. reserv.

06694770   Supplier Number: 55998620
StrandWare Debuts New Version of Industry Leading Label Matrix Software.

15/AA,AN,TI/7   (Item 2 from file: 16)
DIALOG(R)File 16:(c) 2005 The Gale Group. All rts. reserv.

04835467   Supplier Number: 47114540
RIO Developer marries C++ to relational databases

15/AA,AN,TI/8   (Item 3 from file: 16)
DIALOG(R)File 16:(c) 2005 The Gale Group. All rts. reserv.

04641524   Supplier Number: 46828520
DataMirror Reflects New Capabilities

15/AA,AN,TI/9   (Item 4 from file: 16)
DIALOG(R)File 16:(c) 2005 The Gale Group. All rts. reserv.

04521055   Supplier Number: 46642087
**I-Kinetics' JComponentPro offers integrated Java and CORBA component tool
  suite Java desktop components can run anywhere accessing CORBA server
  components located anywhere.**

15/AA,AN,TI/10   (Item 5 from file: 16)

04415583   Supplier Number: 46478322
PC Expo - Radnet's WebShare For Web Groupware Apps 06/19/96

15/AA,AN,TI/11   (Item 6 from file: 16)

02631543   Supplier Number: 43502661
CA extends report writer range

15/AA,AN,TI/12   (Item 1 from file: 148)

10459843   SUPPLIER NUMBER: 21128861
**DATABASE UPDATE.(relational database management software) (Technology
  Information)**

15/AA,AN,TI/13   (Item 2 from file: 148)

08327731   SUPPLIER NUMBER: 17847696
**Diamond Head opens its electronic file cabinet. (Diamond Head Software
  Inc.)(Special ImagingExpo Issue)**

15/AA,AN,TI/14   (Item 3 from file: 148)

08010960   SUPPLIER NUMBER: 16993625
Apple inks agreements with Visgenic, IBM. (Visigenic Software Inc)

15/AA,AN,TI/15   (Item 4 from file: 148)

07708923   ' SUPPLIER NUMBER: 16641800
**An Agile Ethernet/ATM switch. (Agile Networks Inc; local area network;
  asynchronous transfer mode)**

15/AA,AN,TI/16   (Item 5 from file: 148)

07202614 .   SUPPLIER NUMBER: 15055753
**Going with the flow. (workflow management systems for engineering
  organizations) (Special Report: Managing Engineering Data)**

15/AA,AN,TI/17   (Item 6 from file: 148)

05471020   SUPPLIER NUMBER: 11071505
**SQL for PC users. (structured query language)(includes related articles on
  the history of SQL, the future of the client/server model, and SQL Server
  under Novell) (Software Review) (overview of four database management
  systems that offer SQL links) (evaluation)**

15/AA,AN,TI/18   (Item 7 from file: 148)

05226513   SUPPLIER NUMBER: 10859235
New French agri-food sectoral plans.

   15/AA,AN,TI/19   (Item 8 from file: 148)

05184513   SUPPLIER NUMBER: 10863508
**ObjectSoft tightens data links; Windows program lets users create, view
   data ties. (ObjectSoft Corp.'s Relate search software) (product
   announcement)**

   15/AA,AN,TI/20   (Item 9 from file: 148)

05124259   SUPPLIER NUMBER: 10506739
**Software reuse offers the "missing link" in CAIS. (common Ada interface
   set)(includes information on component products)**

   15/AA,AN,TI/21   (Item 10 from file: 148)

04119097   SUPPLIER NUMBER: 07755222
The next generation. (the growing use of Structured Query Language)

   15/AA,AN,TI/22   (Item 1 from file: 160)

01154193
DATA BASE LANGUAGE STANDARDIZATION.

   15/AA,AN,TI/23   (Item 1 from file: 275)

01948674   SUPPLIER NUMBER: 18406926
PC Expo - Radnet's WebShare For Web Groupware Apps.

   15/AA,AN,TI/24   (Item 2 from file: 275)

01691115   SUPPLIER NUMBER: 15578887
**A guide to data integrity rules. (PC Tech: Corporate Developer) (Column)
   (Tutorial)**

   15/AA,AN,TI/25   (Item 3 from file: 275)

01664012   SUPPLIER NUMBER: 15005180
**SQL-Programmer 1.5. (Sylvain Faust Inc.'s data base application development
   software package) (Software Review) (Evaluation)**

   15/AA,AN,TI/26   (Item 4 from file: 275)

01623575   SUPPLIER NUMBER: 14468936
Using PowerBuilder and SQL Server store procedures. (Client/Server Advisor:

PowerBuilder techniques)(Column) (Tutorial)

15/AA,AN,TI/27   (Item 5 from file: 275)

01580076   SUPPLIER NUMBER: 13068635
DataPivot 1.1. (Brio Technology Inc.'s statistical analysis and report
   writing software package) (Software Review) (Products: Hands On)
   (Evaluation)

15/AA,AN,TI/28   (Item 6 from file: 275)

01495497   SUPPLIER NUMBER: 11697536
Da Vinci remaps eMail architecture. (eMail 2.0 for DOS)(brief article)
   (Product Announcement)

15/AA,AN,TI/29   (Item 7 from file: 275)

01357949   SUPPLIER NUMBER: 08381582
Special events, part 2. (event driven programming) (The Fox Files)
   (technical) (tutorial)

15/AA,AN,TI/30   (Item 8 from file: 275)

01321029   SUPPLIER NUMBER: 08550029
Data Based Advisor COMDEX sneak preview. (COMDEX '89; includes related
   article on Microrim Inc.'s next-generation database management system)

15/AA,AN,TI/31   (Item 9 from file: 275)

01290841   SUPPLIER NUMBER: 07073636
Database directions for the 90's. (The open database architecture of the
   90's.)

15/AA,AN,TI/32   (Item 10 from file: 275)

01251528   SUPPLIER NUMBER: 06827655
Arris. (Software Review) (one of 12 CADD packages evaluations) (evaluation)

15/AA,AN,TI/33   (Item 11 from file: 275)

01208709   SUPPLIER NUMBER: 05031356
Database design techniques. (relational DBMS applications programming)

?show files;ds
File 476:Financial Times Fulltext 1982-2005/Feb 08
        (c) 2005 Financial Times Ltd
File 610:Business Wire 1999-2005/Feb 08
        (c) 2005 Business Wire.
File 613:PR Newswire 1999-2005/Feb 08
        (c) 2005 PR Newswire Association Inc
File 621:Gale Group New Prod.Annou.(R) 1985-2005/Feb 08
        (c) 2005 The Gale Group
File 624:McGraw-Hill Publications 1985-2005/Feb 08
        (c) 2005 McGraw-Hill Co. Inc
File 634:San Jose Mercury Jun 1985-2005/Feb 06
        (c) 2005 San Jose Mercury News
File 636:Gale Group Newsletter DB(TM) 1987-2005/Feb 08
        (c) 2005 The Gale Group
File 810:Business Wire 1986-1999/Feb 28
        (c) 1999 Business Wire
File 813:PR Newswire 1987-1999/Apr 30
        (c) 1999 PR Newswire Association Inc
File 267:Finance & Banking Newsletters 2005/Feb 07
        (c) 2005 The Dialog Corp.
File 268:Banking Info Source 1981-2005/Jan W4
        (c) 2005 ProQuest Info&Learning
File 625:American Banker Publications 1981-2005/Feb 08
        (c) 2005 American Banker
File 626:Bond Buyer Full Text 1981-2005/Feb 08
        (c) 2005 Bond Buyer

Set   Items   Description
S1   7645747   KEY OR CONTROL OR CONTROLLING OR MASTER OR PRIMARY OR PRIME
                 OR AUTHORITY OR BACKBONE OR CORE OR ESSENTIAL OR FOUNDATION -
                 OR PRINCIPAL OR PRINCIPLE OR ROOT OR SOURCE OR BASAL OR ELEME-
                 NTAL OR FUNDAMENTAL
S2   4121246   DEFINITION? ? OR VALUE? ? OR DATA()(ELEMENT? ? OR ITEM? ?)
                 OR DATAFIELD? ? OR TAG? ? OR LABEL? ? OR FIELD? ? OR CODE? ? -
                 OR FIELDNAME? ?
S3   4967269   SEARCH??? OR LOCATION OR SELECT??? OR RETRIEV??? OR CRAWL?-
                 ?? OR SPIDER??? OR QUERY??? OR QUERIES OR ACCESS OR BROWSING -
                 OR FIND???
S4   2567845   MASK? ? OR FILTER? ? OR TEMPLATE? ? OR RULE()(SET? ? OR BA-
                 SE) OR RULESET? ? OR SET? ?(2W)RULES OR RULEBASE? ? OR RULE? ?
                 OR PROCEDURE? ? OR MATRIX?? OR MATRICES OR STRUCTURE? ? OR F-
                 RAMEWORK? ?
S5   815246   (TRANSACTION OR MULTIPLICATIVE)()(DATA OR INFORMATION) OR -
                 DATABASE? ? OR DATABANK? ? OR DATASET? ? OR DATAFILE? ? OR (D-
                 ATA OR INFORMATION OR KNOWLEDGE)()(BASE? ? OR BANK? ? OR SET?
                 ? OR FILE? ?) OR DB OR KNOWLEDGEBASE
S6   173866   S1(5N)S2
S7   63142   S3(5N)S4
S8   58   S5(S)S6(S)S7
S9   23   S5(10N)S6(10N)S7
S10   18   S9 NOT PY>2000
S11   16   S10 NOT PD=20001028:20050331
S12   13   RD (unique items)

12/3,K/2   (Item 2 from file: 621)
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)
(c) 2005 The Gale Group. All rts. reserv.

01235480   Supplier Number: 44190402   (USE FORMAT 7 FOR FULLTEXT)
ENHANCED WOODSTOCK BUILDING SUPPLIER SOFTWARE: FASTER PROCESSING - MORE
   FEATURES
News Release, pN/A
Oct 27, 1993
Language: English   Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 541

...   and streamlined for order, quote and PO modules
     for optimal performance. All files
      externally defined.
      Database Extensions IMPROVED!
      Enhanced **master**   **field** /file reference **structure** with all files
      externally defined. **Query** -ready column,
      header, edit codes.
      AS/400 Sryle Windows Intelligent Prompting...ENHANCED!
      Extended to all...

   12/3,K/4   (Item 3 from file: 621)
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)
(c) 2005 The Gale Group. All rts. reserv.

01036598   Supplier Number: 40003274   (USE FORMAT 7 FOR FULLTEXT)
'4th-WRITE' -- An Automated Documentation and easy Maintenance Tool for
   FOCUS... end-users hate to do it and managers could have major problems
   if it is not done properly.
PR Newswire, pN/A
March 23, 1987
Language: English   Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 195

...   stripping all essential data from your FOCUS MASTERs and FOCEXECs,
     including optional comments from the **source**   **code**
, and then creating a
     FOCUS **database** . 4th-WRITE makes maintenance through on-line **query**
     screens a more accurate **procedure** . The **query**
screens demonstrate the
     impact of a change on a system's files or fields. 4th...

   12/3,K/12   (Item 7 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

01159113   Supplier Number: 40984247   (USE FORMAT 7 FOR FULLTEXT)
IBM Announcements
Computergram International, n1285, pN/A
Oct 17, 1989
Language: English   Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 1024

...   RPQ
     VM/Software Engineering Version 2 is a VM-based facility that controls
and manages **source** and object **code** , documentation, and other
machine-processable material during software development and build
processes. **Structured**   **Query** Language/Data System provides the central
database facilities to control and manage software objects and related

data. This licensed program replaces both...

12/3,K/13   (Item 1 from file: 810)
DIALOG(R)File 810:Business Wire
(c) 1999 Business Wire . All rts. reserv.

0468599   BW0135

**QUINTUS: Quintus announces beta for for CustomerQ 2.3; provides integrated
    solutions   for   customer   service   automation;   new   tools   provide
    cross-departmental solutions**

March 06, 1995

Byline: Business Editors/Computer Writers

    ...as providing CustomerQ's
powerful problem resolution technology. Using HelpQ, a help desk
analyst can **select** a problem **template** , and HelpQ fills in **key** data
 fields using default **values** and provides a pop-up with relevant
diagnostic questions. HelpQ can then search the solution **database**
to locate the appropriate problem resolution.
    CallQ is a variant of HelpQ that is optimized...

12/AA,AN,TI/1   (Item 1 from file: 610)

19991005278B1234
StrandWare Debuts New Version of Industry Leading Label Matrix Software

12/AA,AN,TI/2   (Item 1 from file: 621)

01418289   Supplier Number: 46642087
**I-Kinetics' JComponentPro offers integrated Java and CORBA component tool
  suite Java desktop components can run anywhere accessing CORBA server
  components located anywhere.**

12/AA,AN,TI/3   (Item 2 from file: 621)

01235480   Supplier Number: 44190402
**ENHANCED WOODSTOCK BUILDING SUPPLIER SOFTWARE: FASTER PROCESSING - MORE
  FEATURES**

12/AA,AN,TI/4   (Item 3 from file: 621)

01036598   Supplier Number: 40003274
**'4th-WRITE' -- An Automated Documentation and easy Maintenance Tool for
  FOCUS... end-users hate to do it and managers could have major problems
  if it is not done properly.**

12/AA,AN,TI/5   (Item 1 from file: 624)

0495710
**Three Touches of Class: Liant, Lucid, and Parcplace show flexible object
  programming in C++**

12/AA,AN,TI/6   (Item 1 from file: 636)

03511151   Supplier Number: 47249908
**COMPANIES NEED CERTIFICATE INTEROPERABILITY Certificate Authorities
  Positioning To Instill Peace of Mind**

12/AA,AN,TI/7   (Item 2 from file: 636)

03238890   Supplier Number: 46642369
**I-KINETICS: I-Kinetics' JComponentPro offers integrated Java and CORBA
  component tool suite**

12/AA,AN,TI/8   (Item 3 from file: 636)

03163304   Supplier Number: 46478322
PC Expo - Radnet's WebShare For Web Groupware Apps 06/19/96

12/AA,AN,TI/9   (Item 4 from file: 636)

02903332   Supplier Number: 45903233
DIAMOND HEAD OPENS ITS ELECTRONIC FILE CABINET.

   12/AA,AN,TI/10   (Item 5 from file: 636)

02772843   Supplier Number: 45626902
NEW DATABASE WIDENS ORACLE'S TECHNOLOGY LEAD IN DATA WAREHOUSING MARKET

   12/AA,AN,TI/11   (Item 6 from file: 636)

01968204   Supplier Number: 43502661
CA extends report writer range

   12/AA,AN,TI/12   (Item 7 from file: 636)

01159113   Supplier Number: 40984247
IBM Announcements

   12/AA,AN,TI/13   (Item 1 from file: 810)

0468599   (

**Quintus announces beta for for CustomerQ 2.3; provides integrated solutions
   for customer service automation; new tools provide cross-departmental
   solutions**

```
?show files;ds
File   13:BAMP 2005/Jan W5
          (c) 2005   The Gale Group
File   75:TGG Management Contents(R) 86-2005/Jan W5
          (c) 2005 The Gale Group
File 990:NewsRoom Current Nov 1 -2005/Feb 08
          (c) 2005 The Dialog Corporation
File 635:Business Dateline(R) 1985-2005/Feb 08
          (c) 2005 ProQuest Info&Learning
File 647:CMP  Computer Fulltext 1988-2005/Jan W4
          (c) 2005 CMP Media, LLC
File 674:Computer News Fulltext 1989-2005/Jan W5
          (c) 2005 IDG Communications
File 660:Federal News Service 1991-2002/Jul 02
          (c) 2002 Federal News Service
File   98:General Sci Abs/Full-Text 1984-2004/Sep
          (c) 2004 The HW Wilson Co.
File 570:Gale Group MARS(R) 1984-2005/Feb 08
          (c) 2005 The Gale Group
File 239:Mathsci 1940-2005/Mar
          (c) 2005 American Mathematical Society
File 369:New Scientist 1994-2005/Jan W4
          (c) 2005 Reed Business Information Ltd.
File 370:Science 1996-1999/Jul W3
          (c) 1999 AAAS
File   95:TEME-Technology & Management 1989-2005/Jan W1
          (c) 2005 FIZ TECHNIK
File 553:Wilson Bus. Abs. FullText 1982-2004/Sep
          (c) 2004 The HW Wilson Co
File 141:Readers Guide 1983-2004/Sep
          (c) 2004 The HW Wilson Co
File 482:Newsweek 2000-2005/Feb 02
          (c) 2005 Newsweek, Inc.
File 483:Newspaper Abs Daily 1986-2005/Feb 05
          (c) 2005 ProQuest Info&Learning
File 484:Periodical Abs Plustext 1986-2005/Jan W5
          (c) 2005 ProQuest
```

Set	Items	Description
S1	7122902	KEY OR CONTROL OR CONTROLLING OR MASTER OR PRIMARY OR PRIME OR AUTHORITY OR BACKBONE OR CORE OR ESSENTIAL OR FOUNDATION - OR PRINCIPAL OR PRINCIPLE OR ROOT OR SOURCE OR BASAL OR ELEME- NTAL OR FUNDAMENTAL
S2	4837186	DEFINITION? ? OR VALUE? ? OR DATA()(ELEMENT? ? OR ITEM? ?) OR DATAFIELD? ? OR TAG? ? OR LABEL? ? OR FIELD? ? OR CODE? ? - OR FIELDNAME? ?
S3	5422654	SEARCH??? OR LOCATION OR SELECT??? OR RETRIEV??? OR CRAWL?- ?? OR SPIDER??? OR QUERY??? OR QUERIES OR ACCESS OR BROWSING - OR FIND???
S4	4177781	MASK? ? OR FILTER? ? OR TEMPLATE? ? OR RULE()(SET? ? OR BA- SE) OR RULESET? ? OR SET? ?(2W)RULES OR RULEBASE? ? OR RULE? ? OR PROCEDURE? ? OR MATRIX?? OR MATRICES OR STRUCTURE? ? OR F- RAMEWORK? ?
S5	593365	(TRANSACTION OR MULTIPLICATIVE)()(DATA OR INFORMATION) OR - DATABASE? ? OR DATABANK? ? OR DATASET? ? OR DATAFILE? ? OR (D- ATA OR INFORMATION OR KNOWLEDGE)()(BASE? ? OR BANK? ? OR SET? ? OR FILE? ?) OR DB OR KNOWLEDGEBASE
S6	205865	S1(5N)S2
S7	96003	S3(5N)S4
S8	121	S5(S)S6(S)S7
S9	151046	S1(3N)S2
S10	66484	S3(3N)S4
S11	10	S5(10N)S9(10N)S10
S12	15	S5(10N)S6(10N)S7
S13	77	S5(S)S9(S)S10

```
S14        18    S5(S)(S9(10N)S10)
S15        25    S11 OR S12 OR S14
S16        18    S15 NOT PY>2000
S17        18    S16 NOT PD=20001028:20050331
S18        17    RD (unique items)
```

18/3,K/1   (Item 1 from file: 635)
DIALOG(R)File 635:Business Dateline(R)

2020894   48143045
iExalt, Inc. Completes Acquisition of netFilter Technologies; Acquisition
    Provides Source Code for Dynamic Filtering Software With Widespread
    Applications
Anonymous
Business Wire p1
Jan 20, 2000
WORD COUNT: 718
DATELINE: Houston Texas

TEXT:

        ...its multi-level filtering technology. Most traditional filters
compare outgoing search requests against a "static" **database** that must be
continually updated. In addition to static filtering, netFilter has
developed a proprietary...

...that screens Internet content as it flows back into the user's computer.
The dynamic **filter** reads each **retrieved** document and blocks the request
if it detects **codes** and **key** words established in the filtering
parameters, even if the site is not included in the static **database** .
        SmartSearch+ is the sophisticated artificial intelligence built into
the software. It continually searches websites for...

    18/3,K/12   (Item 2 from file: 553)
DIALOG(R)File 553:Wilson Bus. Abs. FullText

02319009   H.W. WILSON RECORD NUMBER: BWBA92069009
A shared resource access manager.
Grehan, Rick
Byte (Byte) v. 17 (Aug. '92) p. 279-80+
LANGUAGE: English

...ABSTRACT: disk space, printers, or other peripheral devices--or
logical, such as printer queues, files within **databases** , records within
database tables, and fields within records. The easiest method of
providing access management is through semaphores, which are active data
structures typically used to **control** **access** to critical sections of
code in a multitasking environment. File locking, access coordination, and
the differences between binary and counted...

    18/3,K/16   (Item 3 from file: 484)
DIALOG(R)File 484:Periodical Abs Plustext

03523026   (USE FORMAT 7 OR 9 FOR FULLTEXT)
Parametric Technology Corp.
Bartholomew, Doug; Greengard, Samuel; Hasek, Glenn; Jesitus, John; et al
Industry Week (IW), v246 n23, p56-58, p.2
 Dec 15, 1997
 ISSN: 0039-0895   JOURNAL CODE: IW
 DOCUMENT TYPE: News
 LANGUAGE: English   RECORD TYPE: Fulltext; Abstract
WORD COUNT: 535

TEXT:
...   is create Web pages that can automate and standardize certain
processes within ProENGINEER. You can **retrieve** **template** models, set and

control parameter **values** to enforce company standards, do design-rule checking, add third-party applications, and link back to other **databases** and software applications, which can yield parameters that likewise can drive ProENGINEER." For instance, users can link into ERP or MRP **databases** in real time, pull in that information and let Pro/Web.Link push it directly...

18/AA,AN,TI/1   (Item 1 from file: 635)

48143045
iExalt, Inc. Completes Acquisition of netFilter Technologies; Acquisition
    Provides Source Code for Dynamic Filtering Software With Widespread
    Applications

18/AA,AN,TI/2   (Item 1 from file: 647)

01187587   CMP ACCESSION NUMBER: IWK19990322S0002
Symantec Strengthens Its Java Offering - Visual Cafe 3.0   Features
    Integrated Debugger, Wizards, And Middleware

18/AA,AN,TI/3   (Item 2 from file: 647)

01147225   CMP ACCESSION NUMBER: IWK19971201S0056
Fine-Tuned Customization - Autodesk to acquire language enhancer

18/AA,AN,TI/4   (Item 3 from file: 647)

01053109   CMP ACCESSION NUMBER: cwk19950515S0037
Apple Inks Agreements With Visigenic, IBM (In Brief)

18/AA,AN,TI/5   (Item 4 from file: 647)

00634344   CMP ACCESSION NUMBER: EET19890925S2463
Sun environment supports Lisp

18/AA,AN,TI/6   (Item 5 from file: 647)

00551940   CMP ACCESSION NUMBER: WIN19930201S10324
AND... - PFS:WindowWorks Release 2.0

18/AA,AN,TI/7   (Item 1 from file: 674)

049522
Legacy transition tools aid move to client/server
Journal: Network World

18/AA,AN,TI/8   (Item 2 from file: 674)

013318
New software eases task of setting up NetWare servers
Tools let user copy configuratin files to servers.
Journal: Network World

18/AA,AN,TI/9   (Item 1 from file: 95)

I9605657259
A query algebra for program databases
(Eine Abfragealgebra fuer Programmdatenbanken)

   18/AA,AN,TI/10   (Item 2 from file: 95)

I91104637937
Compiling a rule database program into a C/SQL application
(Uebersetzung eines Regeldatenbankprogramms in eine C/SQL-Anwendung)

   18/AA,AN,TI/11   (Item 1 from file: 553)

03029869   H.W. WILSON RECORD NUMBER: BWBA95029869
An Agile Ethernet/ATM switch.
AUGMENTED TITLE: Agile's ATMizer 125 Relational Switch

   18/AA,AN,TI/12   (Item 2 from file: 553)

02319009   H.W. WILSON RECORD NUMBER: BWBA92069009
A shared resource access manager.

   18/AA,AN,TI/13   (Item 1 from file: 141)

H.W. WILSON RECORD NUMBER: BRGA92046048
A shared resource access manager (I).

   18/AA,AN,TI/14   (Item 1 from file: 484)

04709097   SUPPLIER NUMBER: 51571028
Using Samba / Learning Debian GNU/Linux / The Cathedral and the Bazaar:
  Musings on Linux and Open Source by an Accidental Revolutionary / MySQL &
  mSQL / Under the Radar: ...

   18/AA,AN,TI/15   (Item 2 from file: 484)

04629121   SUPPLIER NUMBER: 48154164
Qualitative research and the study of the U.S. Presidency

   18/AA,AN,TI/16   (Item 3 from file: 484)

03523026
Parametric Technology Corp.

   18/AA,AN,TI/17   (Item 4 from file: 484)

03513988
Microsoft Access 97

09677153

=> dis his

    (FILE 'HOME' ENTERED AT 12:50:10 ON 08 FEB 2005)

    FILE 'CONFSCI' ENTERED AT 12:50:17 ON 08 FEB 2005
```
L1      75721 S KEY OR CONTROL OR CONTROLLING OR MASTER OR PRIMARY OR PRIME O
L2      37487 S DEFINITION# OR VALUE# OR DATA(W)(ELEMENT# OR ITEM#) OR DATAFI
L3      29129 S SEARCH### OR LOCATION OR SELECT### OR RETRIEV### OR CRAWL###
L4      58493 S MASK OR TEMPLATE# OR RULE(W)(SET# OR BASE) OR RULESET# OR SET
L5       6630 S (TRANSACTION OR MULTIPLICATIVE)(W)(DATA OR INFORMATION) OR DA
L6        814 S L1(5A)L2
L7        636 S L3(5A)L4
L8          0 S L5(P)L6(P)L7
L9          0 S L5 AND L6 AND L7
L10        20 S L5 AND (L6 OR L7)
L11        20 S L5(P)(L6 OR L7)
L12        19 S L5(10A)(L6 OR L7)
```

L12   ANSWER 6 OF 19   CONFSCI   COPYRIGHT 2005 CSA on STN
AN   2000:16032   CONFSCI
DN   00-012903
TI   Matched **field** processing: Environmental focusing and
       source tracking with applications to North Elba **data
       set**
AU   Soares, C.; Jesus, S.M.; Waldhorst, A.
CS   Univ. Algarve, Faro, Portugal
SO   Marine Technology Society (MTS), 1828 L Street NW, Suite 906, Washington,
       D.C. 20036, USA; phone: 202-775-5966; email: 75112.2154@compuserve.com;
       URL: http://www.selectsite.com/oceans95/mts/, Full papers available.
       Contact MTS for price. Poster Paper.
       Meeting Info.: 993 0042: Oceans '99 (9930042). Seattle, WA (USA). 13-16
       Sep 1999. AGU, ASCE, NOIA, Oceanography Society, Society of Naval
       Architects & Marine Engineers.
DT   Conference
FS   DCCP
LA   English

L12   ANSWER 12 OF 19   CONFSCI   COPYRIGHT 2005 CSA on STN
AN   85:81908   CONFSCI
DN   86016547
TI   Evaluation **procedure** for **selecting database**
       systems according to usability and functionality criteria
AU   Penniall, T.H.
SO   Taylor and Francis, Rankine Road, Basingstoke, Hampshire, RE24 0PR (UK);
       Taylor and Francis, 242 Cherry Street, Philadelphia, PA 19106-1906 (USA),
       Price: 65 pounds sterling.
       Meeting Info.: 853 0155: Ninth Congress of the International Ergonomics
       Association (8530155). Bournemouth (UK). 2-6 Sep 1985. International
       Ergonomics Association (IEA).
DT   Conference
FS   DCCP
LA   UNAVAILABLE

L12   ANSWER 14 OF 19   CONFSCI   COPYRIGHT 2005 CSA on STN
AN   85:63977   CONFSCI
DN   85071051
TI   TINman: A new look at **database structure** and
       retrieval
AU   Noerr, K.T.B.; Noerr, P.L.
CS   Inf. Manage. and Eng., Ltd.
SO   Learned Information, Inc., 143 Old Marlton Pike, Medford, NJ 08055, USA,
       Price -- $50.00.
       Meeting Info.: 852 0471: National Online Meeting (8520471). New York, NY
       (USA). 30 Apr-2 May 1985. Sponsor not indicated.
DT   Conference
FS   DCCP
LA   UNAVAILABLE

L12   ANSWER 18 OF 19   CONFSCI   COPYRIGHT 2005 CSA on STN
AN   75:28168   CONFSCI
DN   75075465
TI   Storage **structures** & **access** methods in relational
       data base management system INGRES.
AU   Held, G...
SO   Proceedings ACM Pacific 75," available Apr 75, $10 prepaid: Mail Room,
       Boole & Babbage, Inc., 850 Stewart Drive, Sunnyvale, Calif. 94086..

09677153

DT   Conference Article
FS   DCCP
LA   UNAVAILABLE

09677153

TI **Structure** of domain novice users' **queries** to a
historical **database**

TI **Searching** techniques for chemical **structure**
databases

TI **Structure searching** using SMILES and relational
databases

TI **Structured query** fragment analysis **database**

TI **Knowledge-based** system and GIS **framework** for
selecting conservation networks

TI Matched **field** processing: Environmental focusing and
source tracking with applications to North Elba **data**
set

TI 3DinSight: An integrated **database** and **search** tool for
structure, function and property of biomolecules

TI Protein **finder** – A relational **database** of protein
structures and supporting tools

TI Negative **rules** and **queries** in expert **database**
systems

TI On negative **rules** and **queries** in expert
database systems

TI Extension of nuclear **structure data base**
searches for gamma-ray laser candidates

TI Evaluation **procedure** for **selecting database**
systems according to usability and functionality criteria

TI Analysis of computer storage **structures** and **access**
methods from a statistical **database** perspective

TI TINman: A new look at **database structure** and
retrieval

TI Storage and **access structures** for geometric

data bases

L12   ANSWER 16 OF 19   CONFSCI   COPYRIGHT 2005 CSA on STN
TI   Multi-level P-trees, an efficient data **structure** for storing,
      manipulating and **retrieving** information in distributed as well
      as centralized **data base** management systems

L12   ANSWER 17 OF 19   CONFSCI   COPYRIGHT 2005 CSA on STN
TI   Using the Microcomputer to Apply **Data-Based** Decision
      Rules for Assisting in the **Selection** of Instructional
      Strategies for the Handicapped

L12   ANSWER 18 OF 19   CONFSCI   COPYRIGHT 2005 CSA on STN
TI   Storage **structures** & **access** methods in relational
      data base management system INGRES.

L12   ANSWER 19 OF 19   CONFSCI   COPYRIGHT 2005 CSA on STN
TI   Interactive **structure searching** using several
      data base

10459843   **Supplier Number:** 21128861 (THIS IS THE FULL TEXT)
DATABASE UPDATE.(relational database management software) (Technology Information)

Text:

John McCormick, a free-lance writer and computer consultant, has been
working with computers since the early 1960s.

Manufacturers have successfully tamed relational database management
systems, developing more flexible, more specific storage and retrieval
methods
       In recent years, many database management system vendors struggled to
move their products from a relational to an object-oriented model. Now the
dust has settled a bit.
       Most databases described as O-O actually are what end users consider
O-O, but this hasn't always been true. For a while, any remote link to
object-orientation, including relational DBMSes created in an O-O language,
were categorized as O-O.
       Hide and seek
       The basic difference among RDBMSes, non-relational DBMSes and O-O
DBMSes, or ODBMSes, is the way they store information and how you retrieve
it.
       An ODBMS stores data as persistent objects defined by classes. Objects
are not just data elements but include information describing how they
relate to other elements. The way an RDBMS stores and processes data
depends on the field in which the data is placed.
       Before you decide to take your department's database resources and
leap aboard the O-O bandwagon, remember that although O-O might make it
easier for users to retrieve information, the O-O database model imposes
some restrictions.
       Chief among such restrictions is that, even more than with an RDBMS,
to implement an O-O database system successfully you must anticipate every
type of search that will ever be done on the data. Searching outside

predefined categories is sometimes possible, but performance degrades markedly.

Unlike most databases, to achieve maximum performance during the design phase of an O-O database, you must predefine relationships among all fields. Data retrieval will be easier but you will only be able to retrieve data based on the predefined relationships.

New and old

ODBMSes let you create new data types that consist of the conventional attributes found in relational models as well as built-in functions and methods.

The technology also supplies significant performance gains by letting you store objects on the server. Pure O-O databases are an appealing alternative for applications that require video or other specialized content.

Standards such as the Object Data Management Group's ODMG-93 will help regulate the technology, but don't look for industrywide adherence to one universal standard.

Computer Associates International Inc., for example, has developed its Jasmine O-O database using a proprietary language.

Despite recent advances in O-O database technology and standards, it's unlikely that the relational database will disappear any time soon.

Although O-O databases can offer a significant performance edge over RDBMSes when queries are known beforehand, the methods used to improve performance in relational databases are better known, and RDBMS vendors have a big head start on their ODBMS rivals.

On one side of the corporate database battle lines is the tried-and-true RDBMS, used for decades by government and business; on the other are new O-O database products from vendors such as Computer Associates, Objectivity Inc. and Poet Software Corp. Sybase Inc., long known as a leader in relational technology, has hitched its wagon to the O-O star, too.

Vendors of conventional RDBMSes will try to stave off the rush to buy O-O products by adding object capabilities to RDBMS products. Such hybrid approaches maintain backward compatibility with the relational server model, and take advantage of its robustness and tremendous installed-user base. At the same time, they let programmers create custom data types.

Although the approach won't please O-O purists, look for the hybrids to gain ground as a pragmatic alternative for the enormous installed RDBMS user base.

A good mix of the disparate technologies is shown in the model adopted by such vendors as Microsoft Corp. and Oracle Corp. The model has the ability to translate an O-O world into the relational model on the back end.

Do it again

An example of the free-form or nonrelational DBMS is a concordance or full-text database in which every word in the data is preindexed. This lets you search for individual words or combinations of words that meet certain criteria, such as "salary" within two words of "base."

A free-form DBMS is relatively fast and very flexible but requires periodic reindexing when new information is added.

An even more basic example consists of a text file you can search using any word processor's search function. It limits the ways you can combine terms in searches but, as long as the files aren't too large, it's easy to build as it requires no predefinition of categories and no

preprocessing.

A good example would be a list of all the people you contact, with their names, agency or company affiliations, and telephone numbers.

As you can enter any sort of text and numeric data in any format, this is, by far, the most versatile nonmultimedia database you can build. And, if all you want to do is identify a person or phone number, or locate a possible contact, you can build and use your database with no added investment.

But the problems are obvious. Such databases must be relatively small, and they provide no way to produce complex reports or do sophisticated searches.

To get the added functionality, you must move up to an RDBMS. The more sophisticated software lets you define specific data fields or classes of information.

Ideally suited to an RDBMS is data such as that in payroll records. Each record contains identical categories, or fields. Fields in a payroll record might include, for example, first name, last name, base salary and street address.

In creating an RDBMS, you must anticipate the sort of information you will need to store, often predefining permissible field contents such as all numeric or alphanumeric.

Data is then arranged in rows using indexed fields, and the query engine joins tables of data based on user-selected key fields.

The more sophisticated RDBMSes use Structured Query Language as the basis for creating a query, that is, the passing of a request for specific information from a user to a database engine.

Old standby

RDBMSes have been around for decades, are well-understood and perform well for most conventional data. Key vendors of RDBMSes are Microsoft, Oracle, and Sybase.

Where RDBMSes begin to falter is in dealing with massive amounts of data. As long as queries are designed into the system, the O-O paradigm can be much faster. Whereas in an RDBMS you must define and restrict data characteristics, in an O-O database you must predefine relationships between data. The kinds of data you can store are more flexibly defined, but the permissible queries are more restricted.

In an O-O database, data is represented not in fields grouped into records but as objects. An object is closely related to a record in an RDBMS but goes beyond storing data to include its possible relationships to other objects. Pointers show relationships between various objects.

RDBMSes shine in an as yet unexplored area of database storage-multimedia. But O-O databases shine more brightly.

The O-O paradigm lets you more easily deal with multimedia data and yields significant performance improvements when handling large databases if the queries being made were anticipated during database construction and relationships were built in.

New digs

Often, this kind of predefined query is easy to develop, but problems may come when new needs are discovered and you want to process the data in new ways, as with data mining, for example.

Key vendors of true O-O databases include Computer Associates, Objectivity and Poet Software. Sybase's future development path seems to leads to O-O.

Hybrid ORDBMSes are gaining favor because they retain the vital

backward-coin-patibility with DBMSes that have been used for decades, while at the same time, programmers can build flexible new custom data types that can handle data not usually found in RDBMSes, such as multimedia information.

Front and back

Microsoft's Object Linking and Embedding database technology, for example, uses objects on the front end that map to data stored on an SQL server at the back end.

O-O and the somewhat less radical hybrid ORDBMSes are important developments, but year 2000-enforced budget restraints combined with the lack of multimedia requirements in many agencies give conventional RDBMSes an edge.

In the future, enterprise databases will be able to mix and match data as never before, thanks to the interoperability of Java running on Common Object Request Broker Architecture and Distributed Component Object Model.

The technology is gaining a firm foothold today. By 2001, a database manager will have no trouble thinking in terms of distributed and parallel computing. More Web servers will get data from multiple sources on the back end, either through mainframes or RDBMS or 0-0 databases.

It's likely to be 2001 and not 2000 because, with the magnitude of year 2000 problems facing most agencies over the next year and a half, the only big database projects likely to be undertaken are those related to testing and fixing year 2000 glitches.

Fixing the code may mean replacing software, but that doesn't end the work. You not only must port legacy data and retrain users, you also must test to ensure that the year 2000ready database you're buying really is year 2000-ready.

At this point in the year 2000 crisis, it's too late to buy software that comes merely with vendor promises of future year 2000 readiness.

In a case of everything old is new again, Unix databases-specifically the open source code Linux version-are of rising importance.

You can buy the inexpensive OpenLinux from Caldera Inc. of Orem, Utah, in a commercial version or download Linux as freeware.

Linux freeware isn't some Mickey Mouse game software; it is a powerful competitor to full-blown Unix. Oracle, Informix Software Inc. and Computer Associates are porting versions of their software to this platform.

But no database decision is made in a vacuum. Most government agencies have massive legacy RDBMSes, and, although offices that need multimedia may want to consider 0-0 database technology, most federal agencies will continue to rely on RDBMSes for decades to come.

What's what in relational and object-oriented DBMSes

	RDBMS	ODBMS
Data storage	Conventional rows and columns of strictly defined fields where query tools join tables with specified key field	Pointers represent links between objects
Search language	Structured Query Language	Usually an OMG-93.cempliant language, uften nun-standard and proprietary
Strongest feature	Large installed base with many experts and	More flexible far multimedia amd better performance for

Here's a database of buying tips
* If you're fortunate enough to have few year 2000 problems and can make a major database acquisition, don't buy for tomorrow; plan for the kinds of data you'll need to store and retrieve in decades to come.
* Check, double-check and triple-check for year 2000 compatibility and legacy data support.
* Most agencies are struggling to make year 2000 date code fixes and should stick to the some type and brand of database they're already using.
* If you'll store still images, video and other multimedia data in a new database, look to an object-oriented DBMS for the best performance.
* A massive collection of legacy data probably rules out a pure ORDBMS but may lend itself to a hybrid ORDBMS.
* Consider both maintaining a legacy RDBMS for old data and building a separate new 0-0 system for multimedia, It may be the only practical way to begin a changeover, especially if few users need the 0-0 system today.
* Don't underestimate the problems you'll encounter in moving legacy data to a new database, even if it's just a newer RDBMS.
* O-O is still a new technology and the number of people who can tweak it into peak performance is tiny compared with the army of programmers with decades of experience in optimizing RDBMSes.
* Data warehousing and data mining are not 0.0 functions; they're new ways of handling RDBMS data.
* SQL is widely accepted as a standard query language for RDBMSes despite the way vendors add nonstandard enhancements.
* O-O query languages are far less standardized.

For low-end requirements, one of these 12 management systems can do the job

Vendor	Product	Type	Platform
ACI US Inc.	4th Dimension	RDBMS	Mac
20833 Stevens Creek Blvd.			
Cupertino, Calif. 95014			
408-252-4444	4th Dimension	RDBMS	Win95
http://www.acius.com			
	4th Dimension	RDBMS	NT
Alpha Software Inc.	Alpha Five	RDBMS	Win95
165 Middlesex Turnpike			
Burlington, Mass. 01803			
617-229-2924	Alpha Four	RDBMS	MS-DOS
http://www.alphasoftware.com			
AskSam Systems Inc.	AskSam	Free-form	All Windows
119 S. Washington St.			
Perry, FIn. 32347			
904-548-6590			
http://www.asksam.com			
Corel Corp.	Paradox	RDBMS	All Windows
1600 Caning Ave.			
Ottawa, Ont., Can. K1Z 8R7			
613-728-8200			
hftp://www.corel.com			

Eazybase Inc. 90 Eglinton Ave. E. Toronto, Ont., Can. M4P 2Y3 418-482-3037 http://www.eazenet.com	Instabase	Non-RDBMS	Win95, NT
FileMaker Inc. 5201 Patrick Henry Drive Santa Clara, Calif. 95052 408-987-7000 http://www.clariscom	FileMaker Pro	RDBMS	Mac, all Windows
Lotus Development Corp. 55 Cambridge Parkway Cambridge, Mass. 02142 617-577-8500 http://www.lotus.com	Approach	RDBMS	All Windows
Microsoft Corp 1 Microsoft Way	Access	0-RDBMS	All Windows
Redmond, Wash. 98052 425-882-8080 http://www.microsoft.com	Visual FoxPro	ODBMS	Win95, NT

Vendor	Notes
ACI US Inc.	Generates database code for Mac, Win95 and NT; offers strong Web support
20833 Stevens Creek Blvd. Cupertino, Calif. 95014 408-252-4444 http://www.acius.com	Same
	Same
Alpha Software Inc.	Uses extended Xbasic language, is easy for novices but has powertulfeateres
165 Middlesex Turnpike Burlington, Mass. 01803 617-229-2924 http://www.alphasoftware.com	Same, but for older PCs
AskSam Systems Inc.	Has no fields, just full-text indexing and search; supports ASCII, Eudora E-mail and HTML; comes with 18 templates to get you started
119 S. Washington St. Perry, FIn. 32347 904-548-6590 http://www.asksam.com	
Corel Corp. 1600 Caning Ave. Ottawa, Ont., Can. K1Z 8R7 613-728-8200 hftp://www.corel.com	Is san SQL-compatible RDBMS
Eazybase Inc. 90 Eglinton Ave. E.	Has 15-field limit and 1. BMP image field, is perfect for small collection database

Toronto, Ont., Can. M4P 2Y3
418-482-3037
http://www.eazenet.com
FileMaker Inc.   Makes Web publishing easy
5201 Patrick Henry Drive
Santa Clara, Calif. 95052
408-987-7000
http://www.clariscom
Lotus Development Corp.   Runs on low-end PCs
55 Cambridge Parkway
Cambridge, Mass. 02142
617-577-8500
http://www.lotus.com
Microsoft Corp   Integrates with Office, produces
                                        HTML pages
1 Microsoft Way   and strong hyperlinks
Redmond, Wash. 98052
425-882-8080   Is object-oriented and developed
                                        for single
http://www.microsoft.com   users

Vendor	Price
ACI US Inc.	$299
20833 Stevens Creek Blvd.	
Cupertino, Calif. 95014	
408-252-4444	$1,486
http://www.acius.com	for 10
	users
	$270
Alpha Software Inc.	$100
165 Middlesex Turnpike	
Burlington, Mass. 01803	
617-229-2924	$110
http://www.alphasoftware.com	
AskSam Systems Inc.	$140
119 S. Washington St.	
Perry, FIn. 32347	
904-548-6590	
http://www.asksam.com	
Corel Corp.	$129
1600 Caning Ave.	
Ottawa, Ont., Can. K1Z 8R7	
613-728-8200	
hftp://www.corel.com	
Eazybase Inc.	$30
90 Eglinton Ave. E.	
Toronto, Ont., Can. M4P 2Y3	
418-482-3037	
http://www.eazenet.com	
FileMaker Inc.	$199
5201 Patrick Henry Drive	
Santa Clara, Calif. 95052	
408-987-7000	
http://www.clariscom	

```
Lotus Development Corp.        $105
55 Cambridge Parkway
Cambridge, Mass. 02142
617-577-8500
http://www.lotus.com
Microsoft Corp                 $339
1 Microsoft Way
Redmond, Wash. 98052
425-882-8080                   $499
http://www.microsoft.com
```

Industry Codes/Names: BUSN Any type of business; CMPT Computers and Office Automation; GOVT Government and Law
Descriptors: Relational databases--Standards; Database management systems--Computer programs; Computer software industry--Standards
Product/Industry Names: 7372421 (DBMS)   .
Product/Industry Names: 7372 Prepackaged software
File Segment: CD File 275

0468599/9 <u>Links</u>
Business Wire
0468599 BW0135

QUINTUS : Quintus announces beta for for CustomerQ 2.3; provides integrated solutions for customer service automation; new tools provide cross-departmental solutions

March 06, 1995

Ticker Symbol: INGR
Byline: Business Editors/Computer Writers
Dateline: MOUNTAIN VIEW, Calif.
Time: 11:59 PT
Word Count: 666

MOUNTAIN VIEW, Calif.--(BUSINESS WIRE)--March 6, 1995--Quintus
Corporation, a leading supplier of enterprise-wide customer service
automation software, today announced that beta copies of a new
version of its popular CustomerQ support automation software have
been distributed to key customers and test sites.
    CustomerQ version 2.3 will offer new cross-departmental
solutions with HelpQ, CallQ and SalesQ application templates.
CustomerQ also enables true multi-site operations via InsynQ
selective Distributed Data Access (DDA).
    Thousands of customer service and technical support agents
depend on the CustomerQ management solution to help them achieve
total customer satisfaction. Version 2.3 will provide these users
with application development tools allowing modification of
applications for specific needs, as well as a family of cooperating
applications--HelpQ, CallQ and SalesQ. These new tools allow
cross-departmental solutions to customer service problems. All
three applications feature a high-end Microsoft Windows interface
and a World Wide Web interface for remote and occasional users.
    "Using CustomerQ, service and support organizations can provide
their customers with optimum levels of service, solve problems
quickly and effectively--and they can share this information with
other sites and departments," said Dave Rahn, vice president of
marketing for Quintus. "Unlike other service automation solutions,
CustomerQ 2.3 is readily adapted to specific needs. Layout and
fields can be modified easily by those with no programming
experience, and entirely new data tables and business processes can
be modeled with basic relational database skills. We are pleased to
be able to provide the features our customers have specifically
requested."
HelpQ, CallQ and SalesQ: New Cross-Departmental Solutions
    Using CustomerQ 2.3 Dynamic Data Exchange (DDE), support
personnel can have the industry's most powerful case-based reasoning
tools and full text support-desk encyclopedias at their fingertips.
This version of CustomerQ has been refined to enable users to
resolve more customer problems in that first call.

HelpQ provides multiple views into the underlying data such as site and customer information, as well as providing CustomerQ's powerful problem resolution technology. Using HelpQ, a help desk analyst can select a problem template, and HelpQ fills in key data fields using default values and provides a pop-up with relevant diagnostic questions. HelpQ can then search the solution database to locate the appropriate problem resolution.

CallQ is a variant of HelpQ that is optimized for external customer support by providing more detailed customer information and an embedded defect tracking focus for communication with an engineering group. Additionally, CallQ provides tools to search free text documentation and fax documents to end-users, as well as tracking warranty information and product problems to specific components and release levels.

SalesQ, an opportunity management system that shares data with the help desk, is designed for organizations with a complex sales cycle that often interacts with customer service. Now sales persons can, for instance, review the service record of a specific prospect or customer, or technical support can alert a sales person that their customer is reporting a problem.

CustomerQ version 2.3 is expected to be available during the third quarter of 1995.
Enterprise-Wide Service Solution

Whether a company has departments located in another building or another country, CustomerQ 2.3 can disseminate vital customer data throughout the organization. Using version 2.3, a salesperson can review customer service records, the help desk can communicate with engineering and international service departments can share information. Up to 15 CustomerQ installations, each with its own data server, can be linked with InSynq--a Quintus utility for selective data replication--and CustomerQ 2.3 The installations can be located anywhere in the world and configured to support up to 250 clients.

Founded in 1984, Quintus is a wholly owned subsidiary of Intergraph Corporation (NASDAQ symbol INGR), the world's leading provider of solutions for enterprise-wide computer graphics and technical information management. Quintus Corporation is a leading supplier of enterprise-wide customer service automation systems for a broad range of industries, including biotechnology, electronics, financial, government, hospitality, oil and gas, pharmaceuticals, retail, software and transportation.

```
CONTACT:   Quintus Corporation
           Deborah Keller, 415/254-2843
           email: debra.keller@quintus.com
           Impact Communications
           Allison Niday, 408/439-0977
           email: aniday@mcimail.com
KEYWORD:   CALIFORNIA
INDUSTRY KEYWORD:   COMPUTERS/ELECTRONICS COMED PRODUCT
```

01691115   **Supplier Number: 15578887 (This Is The FULL TEXT)**
A guide to data integrity rules. (PC Tech: Corporate Developer) (Column) (Tutorial)

Ricciardi, Sal

Abstract: There are five types of data integrity rules in relational databases including entity, referential, column, domain and user-defined. The entity integrity rule mandates that all rows be assigned an identifier or primary-key value. Databases that support primary keys include Borland's Paradox for Windows and Microsoft's Access. The referential integrity rule requires that databases reject updates or deletions that change or eliminate the target of a reference. Access includes an option for enforcing referential integrity. Column integrity rules mandate that certain values be maintained for a particular column. Both Paradox for Windows and Access support column-based validity checks. Domain integrity rules are similar to those used for column integrity, but relate to the domain level. Few applications currently support domain integrity. User-defined integrity rules involve constraints the user establishes for the database. Such constraints are not bound to a particular table or column and often are necessary to support complex business rules.

Text:

The content of a database often forms the basis on which critical business
decisions are made. To ensure that the database remains correct and
complete at all times, you must establish and enforce the appropriate data
integrity rules. As I discussed in the last installment of Corporate
Developer (June 28, 1994), if you're fortunate enough to be using a
database management system that supports declarative integrity, you need
only declare the rules to the database, and it will then automatically
enforce them globally. Otherwise, you must write your own procedures to
enforce the integrity rules.

In this column, I'll review the different kinds of data integrity rules.
The relational model defines five types of integrity: entity, referential,
column, domain, and user-defined. I'll also discuss here a sixth type,
primary-key integrity. Ideally, your database management system should
support and enforce each of these types.
     THE ENTITY INTEGRITY RULE
     Recall that a primary key is the column (or combination of columns)
you choose to provide a unique identification for each row in a table. For
example, you might use a customer ID to distinguish customers or a part
number to identify parts. Under this approach, it makes sense to require

that all customers have a customer ID or that all parts have a part number. Without such a fingerprint, the database loses its primary means of identifying a row.

The entity integrity rule simply codifies this common-sense principle: A row must always have a primary-key value. You cannot add a new row that lacks a primary-key value, and you cannot change an existing row if that would result in the loss of its primary-key value. If you attempt to add a new customer without including a customer ID, you violate the entity integrity rule and the database must reject the row. When you define a column as the primary key, you are actually implying that the database should enforce entity integrity. Databases that support primary keys (Microsoft Access and Paradox for Windows, for example) automatically enforce entity integrity; it is assumed by the very action of calling something a primary key.

A number of products require that you add a nonnull constraint to the column definition of the primary key to activate entity integrity support. The nonnull constraint simply means, "Don't permit any row to omit a value in this column." Still other products (some Xbase packages, for example) provide no support for primary keys or entity integrity. Such products require you to write the code that enforces the entity integrity rule.

THE PRIMARY-KEY INTEGRITY RULE

Primary-key integrity demands that the value of the key be unique. After all, you can't identify a row uniquely if its primary-key value is not distinct from all others. Since it is really part of the definition of a primary key, products that support a primary-key type enforce this rule automatically. For example, Microsoft Access and Paradox for Windows automatically prevent you from duplicating a primary-key value.

Other database products require you to add a unique constraint to the primary-key column definition to ensure enforcement of the rule. Database management systems that follow ANSI SQL-89, for example, require you to add both the unique constraint for primary-key integrity and the nonnull constraint for entity integrity. If your product supports ANSI SQL-92, on the other hand, you need only to declare the column as a primary key; support for entity and primary-key integrity is then assumed. Again, some products (some Xbase packages) still provide no support for primary keys, so you must write code to enforce the primary-key integrity rule.

THE REFERENTIAL INTEGRITY RULE

When you design a database, you divide your information into many subject-based tables to minimize data redundancy. You then provide your database management system with the means to connect the data back together again by placing common columns into related tables. To represent a one-to-many relationship, for example, take the primary key from the one table and add it to the many table as an additional column. To reconnect the data, the system then takes the value in the many table and looks up the corresponding value in the one table. In this way, the values in the many table always reference the corresponding values in the one table. (For a more complete discussion of table relationships, see "Database Design: Redundancy and Normalization" in the Corporate Developer of January 25, 1994.)

You can imagine ways in which the primary-key column in the one table could become out of sync with its references. Suppose, for example, that your database has a one-to-many relationship between customers and orders and that you want to delete a customer. If that customer has order records in the Orders table, those records will become orphans when you delete the

customer record. They will have a customer ID that is no longer valid, since the row it references no longer exists. The database will have lost its referential integrity.

Keeping such references locked in sync is what referential integrity is all about. The referential integrity rule says that what you reference must exist and that your database management system should make sure this condition always remains true. How, then, should the rule be enforced?

The most obvious solution is to reject any operation that would violate referential integrity. Under this approach, the database would reject both updates that change the target of a reference and deletions that remove the target of a reference. Microsoft Access uses this technique by default (once you choose to enforce referential integrity), as shown in Figure 1.

In this case, the database restricts all updates and deletions to those that would not violate the rule. In practice, however, a few additional alternatives make sense. You might have a perfectly valid need to change the customer ID for a customer who has orders in the Orders table, for example. By default, the database management system should reject such a change as a referential integrity violation. In such a case, to implement the change, you would have to copy the customer row to a new row with the new ID, change all the related order records to the new ID, and then delete the old customer row, which would no longer have any related order records. Such an operation is not only cumbersome, but it also leaves the database in a temporarily inconsistent state. That is, for a short time there are two customer records for the same customer.

What you really need is for the system to update all the required tables automatically as part of a single operation to keep them in sync with your changes. In other words, the database management system should support a cascade option.

THE CASCADE OPTION

When a database management system supports the cascade option, it usually implements two independent options: one for updates and one for deletes. When you select either option, the system automatically cascades your changes to all of your tables, thus keeping them synchronized. For example, when you choose the cascade-update option and then update a primary key, the system will propagate that change to all the columns that reference the primary key. Similarly, when you choose cascade delete and then delete a customer record, the system deletes all related order records.

REFERENTIAL ACTIONS

Cascade update and cascade delete fall under the general heading of referential actions--that is, things that can happen in response to an attempted violation of referential integrity. Depending on your choice of database management product, other alternatives may be available. For example, when you delete the target of a reference, you might want to set the references to a specific default value (a default supplier, for instance). Or you might want to blank out (set to null) the references to indicate that something is missing. Databases that comply with ANSI SQL-92 will support both of these options together with cascade update and cascade delete.

SUPPORT VARIES

Support for referential integrity and referential actions varies greatly among database products. As of this writing, Microsoft Access enforces referential integrity and offers both the cascade-delete and the

cascade-update options (see Figure 2). Paradox for Windows, on the other hand, supports referential integrity and cascade update but does not support cascade delete. Products such as dBASE and Microsoft FoxPro, which offer only procedural integrity, require that you write code to implement referential integrity. SQL Server, Version 4.21, supports referential integrity but requires that you use triggers to implement the cascade update and cascade delete options. The server invokes the user-written trigger procedure automatically in response to certain actions, such as an attempt to update or delete. The obvious disadvantage of using triggers to implement referential actions is that you must know how to write the procedure. That is, you have to know how to accomplish cascade update and cascade delete using the features available in your particular product. (A future version of SQL Server will likely include simple declarative support for cascade update and delete.)

Triggers do have advantages, however. They give you flexibility when creating custom integrity rules that go beyond those that can be specified declaratively. And since they are stored with the database and executed automatically by the system, triggers do not share the traditional procedural disadvantage of being easily bypassed and of having to be copied all over the place.

The integrity rules I've discussed so far concern the structural framework of a relational database--that is, the primary keys and the columns that reference them. Beyond these rules are the business rules unique to your database.

COLUMN INTEGRITY RULES

Column integrity rules are used to maintain the values in a particular column. For example, you might want to limit the values in a column either to a certain set of permissible values or to a preset range of values. Most products provide at least some support for column integrity, usually by allowing you to define the rules as part of the column definition. Here, too, there is plenty of variation in the way different vendors implement the feature.

As shown in Figure 3, Paradox for Windows supports column-based validity checks that let you test whether the value in a column is within a certain range. You can also assign a default value if none is supplied or you can avoid the use of a default value altogether by marking a column as required, meaning that a value must always be supplied.

Microsoft Access supports the default and required options and also lets you define a custom validation-rule expression that will limit acceptable values to those that meet a certain requirement. You can use this validation rule, for example, to require that a value come from a specified list (for instance, red, white, or blue).

Products that comply with ANSI SQL-92 support a very flexible feature known as a check constraint, which lets you create a wide range of rules for automatically enforcing column integrity.

DOMAIN INTEGRITY RULES

A domain is a named object that represents a set of values and certain characteristics that describe those values. For example, you could specify a basic data type, such as character or numeric, and include any integrity rules that are to apply to the domain. Columns would then draw their values from their respective domains.

For example, you could create a domain that represents all the valid state names. You might then create columns based on that domain. The columns would inherit the characteristics of the domain, such as the basic

data type and any integrity rules, and would draw their values from the domain. You could then add column integrity rules to go beyond the rules inherited from the domain definition.

Domain integrity rules, then, are those rules defined in the domain definition and inherited by columns based on that domain. The rules themselves are of the same type and variety as those used for column integrity.

Currently, few products include full support for domains and domain integrity. Products that comply with ANSI SQL-92 will support domain integrity through the check constraint on the CREATE DOMAIN command.

USER-DEFINED INTEGRITY RULES

Any integrity rule other than the types discussed above is classified as a user-defined integrity rule. Often integrity constraints of arbitrary complexity are needed to enforce certain business rules. For example, suppose you need to enforce a complex business rule that involves several tables. A different mechanism would be required to support such standalone rules. For this reason, ANSI SQL-92 supports assertions--standalone check constraints that are not bound to a particular table or column. You can use assertions to create complex rules that enforce restrictions across multiple tables.

With many of today's products, the only way to enforce rules of arbitrary complexity is to write code using the procedural language that comes with the product. Products that support triggers offer you the opportunity to create arbitrary integrity constraints that are centralized

in the database and are invoked automatically. Ideally, then, the database management system you use should be one that provides the maximum declarative support possible and that also supports a trigger mechanism for those rules that simply cannot be specified declaratively.

FURTHER READING

For more information about data integrity and the data integrity rules, I recommend the following:

* The Relational Model for Database Management, Version 2, by E.F.Codd, Addison-Wesley.

* An Introduction to Database Systems, Volume I, 5th edition, by C.J. Date, Addison-Wesley.

* Understanding the New SQL: A Complete Guide, by Jim Melton and Alan R. Simon, Morgan Kaufmann. (This book is especially good for SQL-specific information.)

THE MAILBOX

Send comments, questions, or suggestions to Sal Ricciardi, contributing editor, via MCI Mail (347-7663) or CompuServe (72241,33).

Sal Ricciardi is a contributing editor of PC Magazine and author of the award-winning Running Microsoft Foxpro for Windows and Running Microsoft Foxpro for MS-DOS. Both books are published by Microsoft Press.

Trade Names: Microsoft Access (Database application development software)--Design and construction; Borland Paradox for Windows (Database application development software)--Design and construction
Operating Platform: Microsoft Windows
File Segment: CD File 275

01235480/9 **Links**
Gale Group New Prod.Annou.(R)
01235480   **Supplier Number: 44190402 (THIS IS THE FULLTEXT)**
ENHANCED WOODSTOCK BUILDING SUPPLIER SOFTWARE: FASTER PROCESSING - MORE FEATURES

News Release , p N/A
Oct 27 , 1993
Language: English   **Record Type:** Fulltext
Document Type: Magazine/Journal ; Trade
Word Count: 541
Text:
ENHANCED WOODSTOCK BUILDING SUPPLIER

SOFTWARE: FASTER PROCESSING - MORE FEATURES
    WOODLAND HILLS, CA, October 27,1993-- The new 6.0 release of
Woodstock, specialty software for lumber and building material
suppliers, increases performance and adds more functionality and
featureq.
This is the fifth major Woodstock upgrade from REAL Applications,
aleading IBMmidrange specialist. Woodstock is continually enhanced to
support and take advantage of advances in IBM AS/400 systems and
added technology.
 Significant Woodstock 6.0 improvements and innovations are:
Entry Programs OPTIMIZED!
 Code rewritten and streamlined for order, quote and PO modules
for optimal performance. All files
 externally defined.
Database Extensions IMPROVED!
 Enhanced master field/file reference structure with all files
externally defined. Query-ready column,
 header, edit codes.
AS/400 Sryle Windows Intelligent Prompting...ENHANCED!
 Extended to all user defined parameter> (fields, codes).
User Deflnable Program Functions EXTENDED!
 Capability to call virtually any program from within another
program. User control and security access features.
Document-to-Document Copy NEW!
 Faster document creation. Copy or duplicate any data from one
customer document to another (i.e., quote, invoice).
Order Entry Edit MORE FLEXIBLE!
 Change any header fields at any point in the order entry
process. Customer Inquiry Module NEW!
 Special access and inquiry to all files and documents related
to or referencing as pecified customer.
 Woodstock 6.0 version supports and has a direct interface to
the ImageView document management/storagesystem. REAL Applications
started shipping the 6.0 release in early October: upgrades for
currentWoodstock AS/400 implementations are also available.
 Contact: Brvce Voelker, REAL Applications, Ltd., 4405 North 1-

10 Service Road, Metairie,
LA 70006. Phone: 504/888-6297.
 REAL Applications, Ltd. is the IBM Midrange subsidiary of El
Camino Resources, Ltd. It was the No. 1 revenue producing IBM
Industry Remarketer (IR) in the U.S. in 1992 and is a Premier
Business Partner and AS/400 Managing Industry Remarketer (MIR)
distributor. REAL specialist in IBM midrange solutions,
includingindustry-specific applications and system integration.
 The parent company, El Camino, and REAL's headquarters are in
Wodland Hills, CA. El Camino is a major equipment lessor and a
leading IBM mainframe and midrange dealer-trader. The company also
provides: applications, communications products, network/system
integration, technical support, training and recovery services. El
Camino has a national sales network and international operations in
Canada, Gernmny, Singapore and the U.K.
 WOODSTOCK
 Lumber & Building Material Supplier Management System
Woodstock is a proven management information and administration
solution for lumber and building suppliers, lumberyards, and home or
hardware centers. Modules are fully Integrated and automate these
operations and functions and many more:
Wooastock Program Modules:
 Accounts Receivable
 Inventory & Receiving
 Millwork, Repair & Service Job Processing
 Online Cash Register
 Order Entry, Invoicing & Backorders
 Price Quotations
 Purchasing
 Physical Inventory
 Sales Reporting & Analysis
 Sales Tax Reporting
Optional Modules: These REAL financial and accounting modules are
fully integrated with the standard Woodstockprograms.
 Accounts Payable
 Fixed Assets
 General Ledger
 Payroll
Woodstock is also compatible with the ImageView document imaging
system, bareode systems, and radio frequency systems and equipment.

Other Products & Sport Services: REAL is a total "Solution Supplier"
    and the building supplier's resource foralldataprocessing needs:
    IBM AS/400 Hardware & Software Products
    System Ieesign, Installation & Trahnng
    Lease/Purchase Plans (Hardware & Software)
    Networks, Communications & System integration
    Peripherals, Storage & Add-on Equipment
    Software Modifications, Maintenance & Upgrades
    24 Hour Tech Support Hoffine

Publisher Name: Various
Company Names: *REAL Applications
Event Names: *330 (Product information)
Geographic Names: *1U9CA (California)
Product Names: *7372440 (Graphics Software)
Industry Names: BUS (Business, General); BUSN (Any type of business)
NAICS Codes: 51121 (Software Publishers)
Trade Names: Woodstock 6.0